

2580 Creekview Road Moab, Utah 84532 435/719-2018 435/719-2019 Fax

June 5, 2008

¥.

Fluid Minerals Group Bureau of Land Management Vernal Field Office 170 South 500 East Vernal, Utah 84078

RE: Application for Permit to Drill—XTO Energy, Inc.

LCU 3-9H

Surface Location: 793' FNL & 1,141' FWL, NW/4 NW/4,
Target Location: 660' FNL & 1,980' FWL, NE/4 NW/4,
Section 9, T11S, R20E, SLB&M, Uintah County, Utah

Dear Fluid Minerals Group:

On behalf of XTO Energy, Inc. Buys & Associates, Inc. respectfully submits the enclosed original and three copies of the Application for Permit to Drill (APD) for the above referenced Tribal surface and BLM mineral directional well. The location of the surface and target location as well as all points along the intended well bore path are within Cause No. 259-01 and are not within 460 feet of any uncommitted tracts or the unit boundary. A letter from XTO Energy immediately follows this letter to charge the APD processing fee under the Fiscal Year 2008 Consolidated Appropriations Act. Included with the APD is the following supplemental information:

Exhibit "A" - Survey plats, layouts and photos of the proposed well site;

Exhibit "B" - Proposed location maps with access and utility corridors;

Exhibit "C" - Production site layout;

Exhibit "D" - Directional Drilling Plan with Directional Survey

Exhibit "E" - Surface Use Plan with APD Certification;

Exhibit "F" - Typical BOP and Choke Manifold diagram;

Exhibit "G" - Cultural and Paleontological Clearance Reports.

Thank you very much for your timely consideration of this application. Please feel free to contact myself or Ken Secrest of XTO Energy, Inc. at 435-722-4521 if you have any questions or need additional information.

Sincerely,

Don Hamilton

Agent for XTO Energy, Inc.

cc: Diana Mason, Division of Oil, Gas and Mining Bucky Secakuku, BIA - Uintah and Ouray Agency Ken Secrest, XTO Energy, Inc. RECEIVED
JUN 1 0 2008

DIV. OF OIL, GAS & MINING

FILE COPY

		i		
Form 3160-3 (February 2005)			FORM APPRO OMB No. 1004 Expires March	-0137
UNITED STATES DEPARTMENT OF THE			5. Lease Serial No.	
BUREAU OF LAND MAN			UTU-34350	
APPLICATION FOR PERMIT TO	DRILL OR REENTER		6. If Indian, Allotee or Tr	ibe Name
			Ute Indian Tribe 7 If Unit or CA Agreement	Nome and No
la. Type of work: ✓ DRILLREENTI	ZR		Little Canyon Unit	•
1b. Type of Well: Oil Well Gas Well Other	Single Zone Multip	ole Zone	8. Lease Name and Well N LCU 3-9H	Vo.
2 Name of Operator XTO Energy, Inc.			9. API Well No. 43-00	47-40127
3a. Address PO Box 1360; 978 North Crescent Roosevelt, UT 84066	3b. Phone No. (include area code) 435-722-4521		10. Field and Pool, or Explor undesignated	ratory
4. Location of Well (Report location clearly and in accordance with an	• •		11. Sec., T. R. M. or Blk. and	Survey or Area
At surface 793' FNL & 1,141' FWL, NW/4 NV At proposed prod. zone 660' FNL & 1,980' FWL, NE/4 NW	•		Section 9, T11S, R2	OE, SLB&M
14. Distance in miles and direction from nearest town or post office*			12. County or Parish	13. State
14.40 miles south of Ouray, Utah		,	Uintah	UT
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 140'	16. No. of acres in lease 640 acres	17. Spacing	g Unit dedicated to this well	
(Also to nearest ang. unit line, it any) 18. Distance from proposed location*	19. Proposed Depth		BIA Bond No. on file	
to nearest well, drilling, completed, applied for, on this lease, ft.	9,366' MD, 9,250' TVD		2 789-BIA	
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will star	rt*	23. Estimated duration	-·
5,113' GR	08/15/2008		14 days	
	24. Attachments			
The following, completed in accordance with the requirements of Onshor	e Oil and Gas Order No.1, must be at	tached to thi	s torm:	
Well plat certified by a registered surveyor.	4. Bond to cover the litem 20 above).	ne operation	ns unless covered by an existi	ng bond on file (see
 A Drilling Plan. A Surface Use Plan (if the location is on National Forest System) 		ation		
SUPO must be filed with the appropriate Forest Service Office).	, ^		rmation and/or plans as may	be required by the
25. Signature Don Hamilton	Name (Printed/Typed) Don Hamilton		Date	06/05/2008
Title Agent for XTO Energy, Inc.				
Approved by (Skendurk)	Name (Printed/Typed)		Date	

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*(Instructions on page 2)

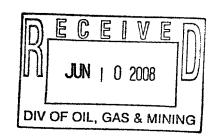
- 109.688540

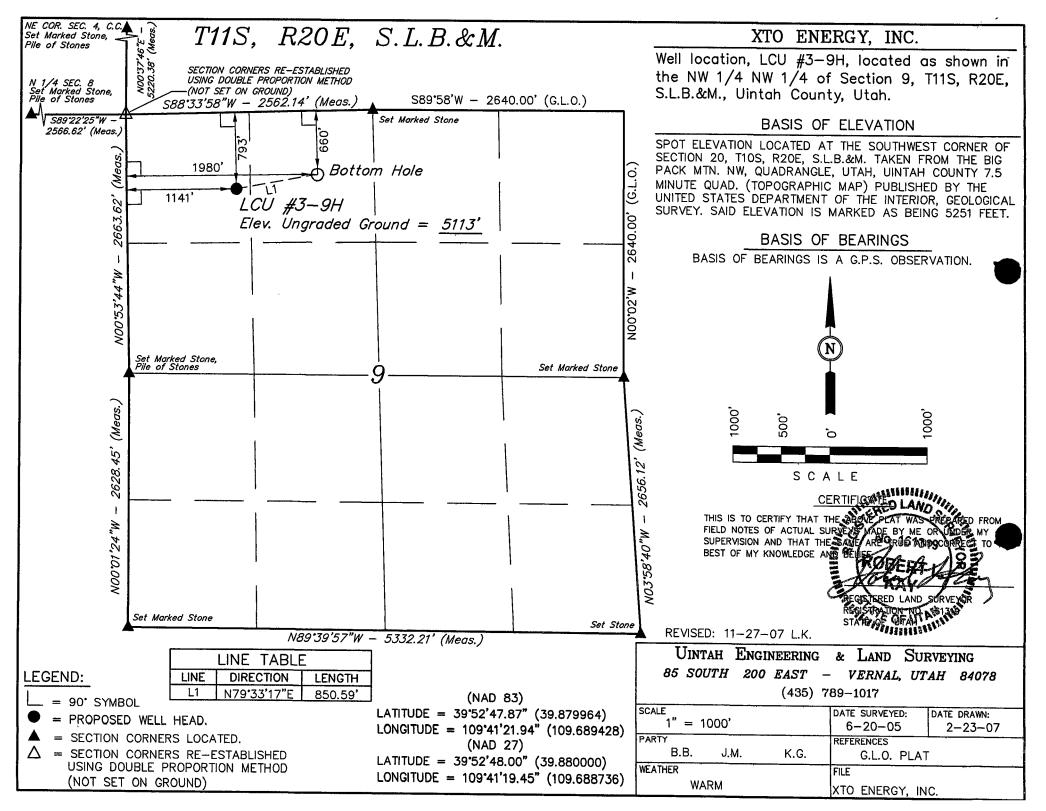
Surf 612146X 44150554 39.886024

Title

Federal Approval of this Action is Necessary

BUL 612402X 44151004 39.880405 -109.685546







LCU 3-9H

COVER SHEET FOR ALL FEDERAL APDs

Dear BLM Office:

Re: Fiscal Year 2008 Consolidated Appropriations Act

Please charge the \$4000 APD fee to the credit card XTO has provided to the BLM office and send the receipt to:

Brenda Waller XTO Energy, Inc. 382 Road 3100 Aztec, NM 87410

Please contact me if anything further is needed at 505-215-0027.

Sincerely,

XTO Energy, Inc.

Brenda Waller

Brenda Waller

Manager of Regulatory Compliance

XTO ENERGY INC.

LCU 3-9H APD Data May 29, 2008

Location: 793' FNL & 1141' FWL, Sec. 9, T11S, R20E County: Uintah

State: <u>Utah</u>

Bottomhole Location: 660' FNL & 1980' FWL, Sec. 9, T11S, R20E

GREATEST PROJECTED TD: 9366' MD/ 9250' TVD

APPROX GR ELEV: 5113'

OBJECTIVE: <u>Wasatch/Mesaverde</u> Est KB ELEV: 5127' (14' AGL)

1. MUD PROGRAM:

INTERVAL	0' to 2266'	2266' to 9366'
HOLE SIZE	12.25"	7.875"
MUD TYPE	FW/Spud Mud	KCl Based LSND / Gel Chemical
WEIGHT	8.80	8.6-9.2
VISCOSITY	NC	30-60
WATER LOSS	NC	8-15

Remarks: Use fibrous materials as needed to control seepage and lost circulation. Pump high viscosity sweeps as needed for hole cleaning. Raise viscosity at TD for logging. Reduce viscosity after logging for cementing purposes. The mud system will be monitored visually/manually.

2. CASING PROGRAM:

Surface Casing: 9.625" casing set at ±2266'MD/2200'TVD in a 12.25" hole filled with 8.8 ppg mud

					Coll	Burst						
1					Rating	Rating	Jt Str	ID	Drift	SF	SF	SF
Interval	Length	Wt	Gr	Cplg	(psi)	(psi)	(M-lbs)	(in)	(in)	Coll	Burst	Ten
0'-2266'	2266'	36#	J-55	ST&C	2020	3520	394	8.921	8.765	2.57	4.47	4.83

Production Casing: 5.5" casing set at ±9366'MD/9250'TVD in a 7.875" hole filled with 9.20 ppg mud.

					Coll	Burst						
					Rating	Rating	Jt Str	ID	Drift	SF	SF	SF
Interval	Length	Wt	Gr	Cplg	(psi)	(psi)	(M-lbs)	(in)	(in)	Coll	Burst	Ten
0'-9366'	9366'	17#	N-80	LT&C	6280	7740	348	4.892	4.767	1.79	2.21	2.19

Collapse and burst loads calculated at TVD with 0.1 psi/ft gas gradient back up.

3. WELLHEAD:

- A. Casing Head: Larkin Fig 92 (or equivalent), 9" nominal, 2,000 psig WP (4,000 psig test) with 9-5/8" 8rnd thread on bottom (or slip-on, weld-on) and 11-3/4" 8rnd thread on top.
- B. Tubing Head: Larkin Fig 612 (or equivalent), 6.456" nominal, 5,000 psig WP, 5-1/2" 8rnd female thread on bottom (or slip-on, weld-on), 8-5/8" 8rnd thread on top.

4. CEMENT PROGRAM:

A. Surface: 9.625", 36#, J-55 (or equiv.), ST&C casing to be set at ± 2266 ' in 12.25" hole.

LEAD:

±224 sx of Premium Plus V Blend. (Type V/Poz/Gel) or equivalent, with dispersant, fluid loss, accelerator, & LCM mixed at 11.0 ppg, 3.82 ft³/sk, 22.95 gal wtr/sx.

TAIL:

350 sx Class G or equivalent cement with bonding additive, LCM, dispersant, & fluid loss mixed at 15.6 ppg, 1.2 cuft/sx

Total estimated slurry volume for the 9.625" surface casing is 1276.1 ft³. Slurry includes 75% excess of calculated open hole annular volume to 2266'.

B. Production: 5.5", 17#, N-80 (or equiv.), LT&C casing to be set at ±9366' in 7.875" hole.

LEAD:

 ± 309 sx of Premium Plus V Blend. (Type V/Poz/Gel) or equivalent, with dispersant, fluid loss, accelerator, & LCM mixed at 11.6 ppg, 3.10 ft³/sk, 17.71 gal wtr/sx.

TAIL:

400 sx Class G or equivalent cement with poz, bonding additive, LCM, dispersant, & fluid loss mixed at 13.0 ppg, 1.49 cuft/sx, 9.09 gal/sx.

Total estimated slurry volume for the 5.5" production casing is 1555.0 ft^3 . Slurry includes 15% excess of calculated open hole annular volume.

Note: The slurry design may change slightly based upon actual conditions. Final cement volumes will be determined from the caliper logs plus 15% or greater excess. The cement is designed to circulate on surface casing string. The production casing is designed for 1766' top of cement.

5. LOGGING PROGRAM:

- A. Mud Logger: The mud logger will come on at surface casing point and will remain on the hole until TD. The mud will be logged in 10' intervals.
- B. Open Hole Logs as follows: Run Array Induction/SFL/GR/SP fr/TD (9366') to the bottom of the surface csg. Run Neutron/Lithodensity/Pe/GR/Cal from TD (9366') to 2266'. Run Gamma Ray to surface.

6. FORMATION TOPS:

Please see attached directional plan.

7. ANTICIPATED OIL, GAS, & WATER ZONES:

A.

Formation	Expected Fluids	TV Depth Top
Green River	Water/Oil Shale	517
Mahogany Bench Mbr.	Water/Oil Shale	1,308
Wasatch Tongue	Oil/Gas/Water	3,272
Green River Tongue	Oil/Gas/Water	3,617
Wasatch*	Gas/Water	3,762
Chapita Wells*	Gas/Water	4,632
Uteland Buttes	Gas/Water	5,847
Mesaverde*	Gas/Water	6,512
Castlegate	Gas/Water	9,317

- B. Appropriately weighted mud will be used to isolate potential gas, oil, and water zones until such time as casing can be cemented into place for zonal isolation.
- C. There are no known potential sources of H_2S .
- D. The bottomhole pressure is anticipated to be between 4200 psi and 4600 psi.
- E. According to the USGS, the Base of Moderately Saline Water is at 3907'.

8. BOP EQUIPMENT:

Surface will not utilize a bop stack.

Production hole will be drilled with a 3000 psi BOP stack.

Minimum specifications for pressure control equipment are as follows:

Ram Type: 11" Hydraulic double ram with annular, 3000 psi w.p.

Ram type preventers and associated equipment shall be tested to stack working pressure if isolated by test plug or to 70% of internal yield pressure of casing. Pressure shall be maintained for at least 10 minutes or until requirements of test are met, whichever is longer. If a test plug is utilized, no bleed-off pressure is acceptable. For a test not utilizing a test plug, if a decline in pressure of more than 10% in 30 minutes occurs, the test shall be considered to have failed. Valve on casing head below test plug shall be open during test of BOP stack.

Annular type preventers (if used) shall be tested to 50% of rated working pressure. Pressure shall be maintained at least 10 minutes or until provisions of test are met, whichever is longer.

As a minimum, the above test shall be performed:

- a. when initially installed:
- b. whenever any seal subject to test pressure is broken
- c. following related repairs: and
- d. at 30 day intervals

Valves shall be tested from working pressure side during BOPE tests with all down stream valves open.

When testing the kill line valve(s) shall be held open or the ball removed.

Annular preventers (if used) shall be functionally operated at least weekly.

Pipe and blind rams shall be activated each trip, however, this function need not be performed more than once a day.

A BOPE pit level drill shall be conducted weekly for each drilling crew.

The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No.2 for equipment and testing requirements, procedures, etc., and individual components shall be operable as

designed. Chart recorders shall be used for all pressure tests. Pressure tests shall apply to all related well control equipment.

BOP systems shall be consistent with API RP53. Pressure tests will be conducted before drilling out from under casing strings which have been set and cemented in place. Test pressures for BOP equipment are as follows:

Annular BOP -- 1500 psi
Ram type BOP -- 3000 psi
Kill line valves -- 3000 psi
Choke line valves and choke manifold valves -- 3000 psi
Chokes -- 3000 psi
Casing, casinghead & weld -- 1500 psi
Upper kelly cock and safety valve -- 3000 psi
Dart valve -- 3000 psi

Blowout preventer controls will be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to ensure good mechanical working order, and this inspection will be recorded on the daily drilling report. Preventers will be pressure tested before drilling casing cement plugs.

The BLM in Vernal, UT shall be notified, at least 24 hours prior to initiating the pressure test, in order to have a BLM representative on location during pressure testing.

- a. The size and rating of the BOP stack is shown on the attached diagram.
- b. A choke line and a kill line are to be properly installed.
- c. The accumulator system shall have a pressure capacity to provide for repeated operation of hydraulic preventers.
- d. Drill string safety valve(s), to fit all tools in the drill string, are to be maintained on the rig floor while drilling operations are in progress.
- e. See attached BOP & Choke manifold diagrams.

9. <u>COMPANY PERSONNEL:</u>

<u>Name</u>	<u>Title</u>	Office Phone	<u>Home Phone</u>
John Egelston	Drilling Engineer	505-333-3163	505-330-6902
Bobby Jackson	Drilling Superintendent	505-333-3224	505-486-4706
Glen Christiansen	Project Geologist	817-885-2800	



300

842

600-

1200

1800-

2400

3000-

3600-

4200

True Vertical Depth

6000

6600

7200

7800

8400

9000

9600

9250

-600

851

Ò

600 Vertical Section at 79.55°

1200

1800

3182

Wasatch Tongue

Chapita Wells

Uteland Butter

Mesaverde

Green River Tongue

0

79

Mahogony Bench Mbr

9 5/8"

Well Name: LCU #3-9H

San Juan Basin **Drilling Department**

Calculation Method: Minimum Curvature Geodetic Datum: North American Datum 1983

Lat: 39° 52' 47.870 N Long: 109° 41' 21.941 W



Azimuths to True North Magnetic North: 11.52°

> Magnetic Field Strength: 52566.4nT Dip Angle: 65.82° Date: 5/15/2008 Model: IGRF200510

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	-
2	300.0	0.00	0.00	300.0	0.0	0.0	0.00	0.00	0.0	
3	850.1	16.50	79.55	842.5	14.3	77.4	3.00	79.55	78.7	
4	3290.6	16.50	79.55	3182.5	139.9	759.1	0.00	0.00	771.9	
5	3840.7	0.00	0.00	3725.0	154.2	836.5	3.00	180.00	850.6	LCU #3-9H - Requested BHL
6	9365.7	0.00	0.00	9250.0	154.2	836.5	0.00	0.00	850.6	·

		CASING DE	TAILS			FORMAT	ION TOP DETAIL	LS	
TVD 2200 9250	.0 :	MD 2265.9 3365.7	Name 9 5/8" 5 1/2"	9-5/8	 517.0 1308.0 3272.0 3617.0 3762.0 4632.0 5847.0	517.5 1335.6 3383.3 3732.6 3877.7 4747.7 5962.7	Formation Green River Mahogony Benc Wasatch Tongu Green River Tor Wasatch Chapita Wells Uteland Buttes Mesaverde	ih Mbr e ngue	
								375	
					9 5/8*	5	1/24	250	South(-)/North(+) (250 ft/in)
-						LCU#3	-9H – Requeste	d BHL	th(+) (250 ft
	_							-125	în)
1 1	1 1	0 1:	25 2		500 62 250 ft/in)	25	750 875	250	
/2"									

XTO Energy

Natural Buttes Wells(NAD83) LCU #3-9H LCU #3-9H LCU #3-9H

Plan: Permitted Wellbore

Standard Planning Report

16 May, 2008

Planning Report

Database:

EDM 2003.14 Single User Db

Company:

XTO Energy

Project:

Natural Buttes Wells(NAD83)

Site: Well: LCU #3-9H LCU #3-9H

Wellbore:

LCU #3-9H

Design:

Permitted Wellbore

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference: **Survey Calculation Method:** Well LCU #3-9H

Rig KB @ 5127.0ft (Frontier #6) Rig KB @ 5127.0ft (Frontier #6)

True

Minimum Curvature

Project

Natural Buttes Wells(NAD83), Vernal, UT

Map System:

US State Plane 1983

Geo Datum: Map Zone:

North American Datum 1983

Utah Northern Zone

System Datum:

Mean Sea Level

Using Well Reference Point

Site

Weli

LCU #3-9H, T11S, R20E

Site Position:

Well Position

Northing:

3,120,943.11 ft

Latitude:

39° 52' 47.870 N

From:

Lat/Long

Easting:

2,148,644.24 ft

Longitude:

109° 41' 21.941 W

Position Uncertainty:

0.0 ft

Slot Radius:

Grid Convergence:

1.19°

LCU #3-9H, S-Well to Wasatch/Mesaverde

3,120,943.11 ft

5,113.0 ft

Latitude:

Position Uncertainty

+N/-S +E/-W 0.0 ft 0.0 ft 0.0 ft Northing: Easting:

Wellhead Elevation:

2,148,644.24 ft

Longitude: Ground Level:

39° 52' 47.870 N 109° 41' 21.941 W

5,113.0 ft

Wellbore

LCU #3-9H

Magnetics

Model Name

IGRF200510

Sample Date

Declination (°)

Dip Angle (°)

Field Strength

(nT)

11.52 65.82 52,566 5/15/2008

Design

Permitted Wellbore

Audit Notes:

Version:

Phase:

Tie On Depth:

Depth From (TVD)

PROTOTYPE

+E/-W

0.0

Vertical Section:

(ft) 0.0 +N/-S (ft) 0.0

(ft) 0.0 Direction (°) 79,55

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.00	0.00	0.00	0.00	
850.1	16.50	79.55	842.5	14.3	77.4	3.00	3.00	0.00	79.55	
3,290.6	16.50	79.55	3,182.5	139.9	759.1	0.00	0.00	0.00	0.00	
3,840.7	0.00	0.00	3,725.0	154.2	836.5	3.00	-3.00	0.00	180.00	LCU #3-9H Reques
9,365.7	0.00	0.00	9,250.0	154.2	836.5	0.00	0.00	0.00	0.00	

Planning Report

Database:

EDM 2003.14 Single User Db

Company: Project:

XTO Energy Natural Buttes Wells(NAD83)

Site:

LCU #3-9H

Well: Wellbore: Design:

LCU #3-9H LCU #3-9H

Permitted Wellbore

Local Co-ordinate Reference:

TVD Reference:

MD Reference: North Reference:

Survey Calculation Method:

Well LCU #3-9H

Rig KB @ 5127.0ft (Frontier #6) Rig KB @ 5127.0ft (Frontier #6)

True

Measured			Vertical			Vertical	Dogleg	Bulld	Turn
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate	Rate
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	3.00	79.55	400.0	0.5	2.6	2.6	3.00	3.00	0.00
500.0	6.00	79.55	499.6	1.9	10.3	10.5	3.00	3.00	0.00
517.5	6.52	79.55	517.0	2.2	12.2	12.4	3.00	3.00	0.00
Green River	0.02	, 5.55	011.0				0.00		5.55
600.0	9.00	79.55	598.8	4.3	23.1	23.5	3.00	3.00	0.00
700.0	12.00	79,55	697.1	7.6	41.0	41.7	3.00	3.00	0.00
800.0	15.00	79.55	794.3	11.8	64.0	65.1	3.00	3.00	0.00
850.1	16.50	79.55	842.5	14.3	77.4	78.7	3.00	3.00	0.00
900.0	16.50	79.55	890.4	16.8	91.3	92.9	0.00	0.00	0.00
1,000.0	16.50	79.55 79.55	986.3	22.0	119.2	121.3	0.00	0.00	0.00
•									
1,100.0 1,200.0	16.50 16.50	79.55 79.55	1,082.1 1,178.0	27.1 32.3	147.2 175.1	149.7 178.1	0.00 0.00	0.00 0.00	0.00
•									
1,300.0	16.50	79.55	1,273.9	37.4	203.1	206.5	0.00	0.00	0.00
1,335.6	16.50	79.55	1,308.0	39.3	213.0	216.6	0.00	0.00	0.00
Mahogony B					201.0	2012			
1,400.0	16.50	79.55	1,369.8	42.6	231.0	234.9	0.00	0.00	0.00
1,500.0	16.50	79.55	1,465.7	47.7	258.9	263.3	0.00	0.00	0.00
1,600.0	16.50	79.55	1,561.5	52.9	286.9	291.7	0.00	0.00	0.00
1,700.0	16.50	79.55	1,657.4	58.0	314.8	320.1	0.00	0.00	0,00
1,800.0	16.50	79.55	1,753.3	63.2	342.7	348.5	0.00	0.00	0.00
1,900.0	16.50	79.55	1,849.2	68.3	370.7	376.9	0.00	0.00	0.00
2,000.0	16.50	79.55	1,945.1	73.5	398.6	405.3	0.00	0.00	0.00
2,100.0	16.50	79.55	2,040.9	78.6	426.5	433.7	0.00	0.00	0.00
2,200.0	16.50	79.55	2,136.8	83.8	454.5	462.1	0.00	0.00	0.00
2,265.9	16.50	79.55	2,200.0	87.2	472.9	480.8	0.00	0.00	0.00
9 5/8"			_,						
2,300.0	16.50	79,55	2,232.7	88.9	482.4	490.5	0.00	0.00	0.00
•	16.50	79,55	2,328.6	94.1	510.3	518.9	0.00	0.00	0.00
2,400.0 2,500.0	16.50	79.55 79.55	2,328.5	99.2	538.3	547.3	0.00	0.00	0.00
•									0.00
2,600.0	16.50	79.55	2,520.3	104.4	566.2 504.1	575.7 604.2	0.00	0.00 0.00	0.00
2,700.0	16.50	79.55	2,616.2	109.5	594.1		0.00		
2,800.0	16.50	79.55	2,712.1	114.7	622.1	632.6	0.00	0.00	0.00
2,900.0	16.50 16.50	79.55 79.55	2,808.0 2,903.9	119.8 125.0	650.0 677.9	661.0 689.4	0.00 0.00	0.00 0.00	0.00 0.00
3,000.0			•						
3,100.0	16.50	79.55	2,999.7	130.1	705.9	717.8	0.00	0.00	0.00
3,200.0	16.50	79.55	3,095.6	135.3	733.8	746.2	0.00	0.00	0.00
3,290.6	16.50	79.55	3,182.5	139.9	759.1	771.9	0.00	0.00	0.00
3,300.0	16.22	79,55	3,191.5	140.4	761.7	774.6	3.00	-3.00	0.00
3,383.3	13.72	79.55	3,272.0	144.3	782.9	796.1	3.00	-3.00	0.00
Wasatch Tor	igue								
3,400.0	13.22	79.55	3,288.2	145.0	786.7	800.0	3,00	-3.00	0.00
3,500.0	10.22	79.55	3,386.1	148.7	806.7	820.3	3.00	-3.00	0.00
	7.22		3,485.0	151.5	821.6	835.4	3.00	-3.00	0.00
3,600.0		79.55							
3,700.0	4.22	79.55	3,584.4	153.3 153.7	831.4 833.5	845.4 847.5	3.00 3.00	-3.00 -3.00	0.00 0.00
3,732.6	3.24	79.55	3,617.0	153.7	833.5	847.5	3.00	-3.00	0.00
Green River	•								
3,800.0	1.22	79.55	3,684.3	154.1	836.1	850.2	3.00	-3.00	0.00
3,840.7	0.00	0.00	3,725.0	154.2	836.5	850.6	3.00	-3.00	0.00

Planning Report

Database:

EDM 2003.14 Single User Db

Company: Project:

XTO Energy Natural Buttes Wells(NAD83)

Site:

LCU #3-9H

Well:

LCU #3-9H LCU #3-9H

Wellbore: Design:

Permitted Wellbore

Local Co-ordinate Reference:

TVD Reference:

MD Reference: North Reference:

Survey Calculation Method:

Well LCU #3-9H

Rig KB @ 5127.0ft (Frontier #6) Rig KB @ 5127.0ft (Frontier #6)

True

Pianned	Survey

Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)
3,877.7	0.00	0.00	3,762.0	154.2	836.5	850.6	0.00	0.00	0.00
Wasatch			•						
3,900.0	0.00	0.00	3,784.3	154.2	836.5	850.6	0.00	0.00	0.00
4,000.0	0.00	0.00	3,884.3	154.2	836.5	850.6	0.00	0.00	0.00
•			•						
4,100.0	0.00	0.00	3,984.3	154.2	836.5	850.6	0.00	0.00	0.00
4,200.0	0.00	0.00	4,084.3	154.2	836.5	850.6	0.00	0.00	0.00
4,300.0	0.00	0.00	4,184.3	154.2	836.5	850.6	0.00	0.00	0.00
4,400.0	0.00	0.00	4,284.3	154.2	836.5	850.6	0.00	0.00	0.00
4,500.0	0.00	0.00	4,384.3	154.2	836.5	850.6	0.00	0.00	0.00
4,600.0	0.00	0.00	4,484.3	154.2	836.5	850.6	0.00	0.00	0.00
4,700.0	0.00	0.00	4,584.3	154.2	836.5	850.6	0.00	0.00	0.00
4,747.7	0.00	0.00	4,632.0	154.2	836.5	850.6	0.00	0.00	0.00
•		0.00	1,502.0	107.2	000.0	300.5	0.00	0.00	0.00
Chapita Wells	0.00	0.00	4,684.3	154.2	836.5	850.6	0.00	0.00	0.00
4,800.0			•						0.00
4,900.0	0.00	0.00	4,784.3	154.2	836.5	850.6	0.00	0.00	0.00
5,000.0	0.00	0.00	4,884.3	154.2	836.5	850.6	0.00	0.00	0.00
5,100.0	0.00	0.00	4,984.3	154.2	836.5	850.6	0.00	0.00	0.00
5,200.0	0.00	0.00	5,084.3	154.2	836.5	850.6	0.00	0.00	0.00
5,300.0	0.00	0.00	5,184.3	154.2	836.5	850.6	0.00	0.00	0.00
5,400.0	0.00	0.00	5,284.3	154.2	836.5	850.6	0.00	0.00	0,00
•	0.00	0.00		154.2	836.5	850.6	0.00	0.00	0.00
5,500.0	0.00 0.00	0.00 0.00	5,384.3	154.2 154.2	836.5	850.6	0.00	0.00	0.00
5,600.0 5,700.0			5,484.3			850.6	0.00	0.00	0.00
	0.00	0.00 0.00	5,584.3	154.2	836.5 836.5	850.6	0.00	0.00	0.00
5,800.0	0.00	0.00	5,684.3	154.2	836.5	850.6	0.00	0.00	0.00
5,900.0	0.00		5,784.3	154.2					
5,962.7	0.00	0.00	5,847.0	154.2	836.5	850.6	0.00	0.00	0.00
Uteland Butte	s								
6,000.0	0.00	0.00	5,884.3	154.2	836.5	850.6	0.00	0.00	0.00
6,100.0	0.00	0.00	5,984.3	154.2	836.5	850.6	0.00	0.00	0.00
6,200.0	0.00	0.00	6,084.3	154.2	836.5	850.6	0.00	0.00	0.00
6,300.0	0.00	0.00	6,184.3	154.2	836.5	850.6	0.00	0.00	0.00
6,400.0	0.00	0.00	6,284.3	154.2	836.5	850.6	0.00	0.00	0.00
6,400.0 6,500.0	0.00	0.00	6,284.3 6,384.3	154.2	836.5	850.6	0.00	0.00	0.00
6,500.0 6,600.0	0.00	0.00	6,364.3 6,484.3	154.2	836.5	850.6	0.00	0.00	0.00
	0.00	0.00		154.2	836.5	850.6	0.00	0.00	0.00
6,627.7	0.00	0.00	6,512.0	104.∠	6.00.0	330.0	0.00	0.00	0.00
Mesaverde		2.00	0.504.0	4740	200 5	050.0	0.00	0.00	0.00
6,700.0	0.00	0.00	6,584.3	154.2	836.5	850,6	0.00	0.00	0.00
6,800.0	0.00	0.00	6,684.3	154.2	836.5	850.6	0.00	0.00	0.00
6,900.0	0.00	0.00	6,784.3	154.2	836.5	850.6	0.00	0.00	0.00
7,000.0	0.00	0.00	6,884.3	154.2	836.5	850.6	0.00	0.00	0.00
7,100.0	0.00	0.00	6,984.3	154.2	836.5	850.6	0.00	0.00	0.00
7,200.0	0.00	0.00	7,084.3	154.2	836.5	850.6	0.00	0.00	0.00
	0.00	0.00	7,184.3	154.2	836.5	850.6	0.00	0.00	0.00
7,300.0	0.00		•	154.2	836.5	850.6	0.00	0.00	0.00
7,400.0	0.00	0.00	7,284.3	154.2	836.5	850.6	0.00	0.00	0.00
7,500.0	0.00 0.00	0.00 0.00	7,384.3 7,484.3	154.2 154.2	836.5	850.6	0.00	0.00	0.00
7,600.0				154.2	836.5	850.6	0.00	0.00	0.00
7,700.0	0.00	0.00	7,584.3	104.2	6,060				
7,800.0	0.00	0.00	7,684.3	154.2	836.5	850.6	0.00	0.00	0.00
7,900.0	0.00	0.00	7,784.3	154.2	836.5	850.6	0.00	0.00	0.00
8,000.0	0.00	0.00	7,884.3	154.2	836.5	850,6	0.00	0.00	0.00
8,100.0	0.00	0.00	7,984.3	154.2	836.5	850.6	0.00	0.00	0.00
8,200.0	0.00	0.00	8,084.3	154.2	836.5	850.6	0.00	0.00	0.00
8,300.0	0.00	0.00	8,184.3	154.2	836.5		0.00	0.00	0.00

Planning Report

Database:

EDM 2003.14 Single User Db

Company:

XTO Energy

Project:

Natural Buttes Wells(NAD83)

Site: Well: LCU #3-9H LCU #3-9H

Wellbore: Design: LCU #3-9H Permitted Wellbore Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Well LCU #3-9H

Rig KB @ 5127.0ft (Frontier #6) Rig KB @ 5127.0ft (Frontier #6)

True

d Survey									
Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth (ft)	Inclination (°)	Azimuth (°)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Section (ft)	Rate (°/100ft)	Rate (°/100ft)	Rate (°/100ft)
8,400.0	0.00	0.00	8,284.3	154.2	836.5	850.6	0.00	0.00	0.00
8,500.0	0.00	0.00	8,384.3	154.2	836.5	850.6	0.00	0.00	0.00
8,600.0	0.00	0.00	8,484.3	154.2	836.5	850.6	0.00	0.00	0.00
8,700.0	0.00	0.00	8,584.3	154.2	836.5	850.6	0.00	0.00	0.00
8,800.0	0.00	0.00	8,684.3	154.2	836.5	850.6	0.00	0.00	0.00
8,900.0	0.00	0.00	8,784.3	154.2	836.5	850.6	0.00	0.00	0.00
9,000.0	0.00	0.00	8,884.3	154.2	836.5	850.6	0.00	0.00	0.00
9,100.0	0.00	0.00	8,984.3	154.2	836.5	850.6	0.00	0.00	0.00
9,200.0	0.00	0.00	9,084.3	154.2	836.5	850.6	0.00	0.00	0.00
9,300.0	0.00	0.00	9,184.3	154.2	836.5	850.6	0.00	0.00	0.00
9,365.7	0.00	0.00	9,250.0	154.2	836.5	850.6	0.00	0.00	0.00
5 1/2"									

Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
LCU #3-9H Requested - plan hits target - Circle (radius 30.0)	0.00	0.00	3,725.0	154.2	836,5	3,121,114.71	2,149,477.34	39° 52′ 49.394 N	109° 41' 11.213 W

Casing Points							
	Measured Depth (ft)	Vertical Depth (ft)		Name	Casing Diameter (")	Hole Diameter (")	
	2,265.9	2,200.0	9 5/8"		9-5/8	12-1/4	
	9,365.7	9,250.0	5 1/2"		5-1/2	7-7/8	

mations						
	Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
	517.5	517.0	Green River		0.00	
	1,335.6	1,308.0	Mahogony Bench Mbr		0.00	
	3,383.3	3,272.0	Wasatch Tongue		0.00	
	3,732.6	3,617.0	Green River Tongue		0.00	
	3,877.7	3,762.0	Wasatch		0.00	
	4,747.7	4,632.0	Chapita Wells		0.00	
	5,962.7	5,847.0	Uteland Buttes		0.00	
	6,627.7	6,512.0	Mesaverde		0.00	

Planning Report

Database:

EDM 2003.14 Single User Db

Company: Project:

XTO Energy

Site:

Natural Buttes Wells(NAD83)

Well:

LCU #3-9H LCU #3-9H

Wellbore: Design:

Permitted Wellbore

LCU #3-9H

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference: Survey Calculation Method: Well LCU #3-9H

Rig KB @ 5127.0ft (Frontier #6) Rig KB @ 5127.0ft (Frontier #6)

True

Plan Anno	otations					
	Measured	Vertical	Local Coor	dinates		
	Depth	Depth	+N/-S	+E/-W		
	(ft)	(ft)	(ft)	(ft)	Comment	
	300.0	300.0	0.0	0.0	Start Build 3.00	i
	850.1	842.5	14.3	77.4	Start 2440.5 hold at 850.1 MD	
	3,290.6	3,182.5	139.9	759.1	Start Drop -3.00	Į
	3,840.7	3,725.0	154.2	836.5	Start 5525.0 hold at 3840.7 MD	
	9,365.7	9,250.0	154.2	836.5	TD at 9365.7	ļ

SURFACE USE PLAN

Name of Operator:

XTO Energy, Inc.

Address:

P.O. Box 1360: 978 North Crescent

Roosevelt, Utah 84066

Well Location:

LCU 3-9H

Surface Location: 793' FNL & 1,141' FWL, NW/4 NW/4, Target Location: 660' FNL & 1,980' FWL, NE/4 NW/4, Section 9, T11S, R20E, SLB&M, Uintah County, Utah

The surface owner or surface owner representative and dirt contractor will be provided with an approved copy of the surface use plan of operations and approved conditions of approval before initiating construction.

The onsite inspection for the referenced well was conducted on Wednesday, May 16, 2007 at approximately 11:00 am. In attendance at the onsite inspection were the following individuals:

Kermit Wopsock

Energy & Minerals Tech

Ute Indian Tribe

Shawnee Guzman

BIA Tech

BIA - Uintah and Ouray Agency

Ken Secrest Dale Birdwell Regulatory Coordinator HSE Coordinator XTO Energy, Inc. Dominion E & P, Inc.

Don Allred Randy Jackson Surveyor Foreman Uintah Engineering and Land Surveyi

Randy Jackson Billy McClure Don Hamilton

Foreman Permitting Agent Jackson Construction LaRose Construction Buys & Associates, Inc.

1. Location of Existing Roads:

- a. The proposed well site is located approximately 14.40 miles south of Ouray, Utah.
- b. Directions to the proposed well site have been attached at the end of Exhibit B.
- c. The use of roads under State and County Road Department maintenance are necessary to access the Little Canyon Unit area. However, an encroachment permit is not anticipated since no upgrades to the State or County Road system are proposed at this time.
- d. All existing roads will be maintained and kept in good repair during all phases of operation.
- e. Vehicle operators will obey posted speed restrictions and observe safe speeds commensurate with road and weather conditions.
- f. Since no improvements are anticipated to the State, County, Tribal or BLM access roads no topsoil striping will occur.
- g. An off-lease federal Right-of-Way is not anticipated for the access road and utility corridors since both are located entirely within the Little Canyon Unit area.

2. Planned Access Roads:

- a. From the proposed LCU 6-9H pad located on BLM surface an access is proposed trending northwest approximately 0.25 miles along new disturbance to the proposed well site. The access crosses no significant drainages.
- b. The access crosses approximately 900' of BLM surface and approximately 350' of Ute Indian Tribe surface prior to entering the pad location also on Ute Indian Tribe surface.
- c. A road design plan is not anticipated at this time.
- d. The proposed access road will consist of a 24' travel surface within a 30' disturbed area across both BLM and Ute Indian Tribe surface.
- e. BLM approval to construct and utilize the proposed access road is requested with this application, Ute Indian Tribe surface use is presently in place as H62-2007-203.
- f. A maximum grade of 10% will be maintained throughout the project.
- g. No turnouts are proposed since adequate site distance exists in all directions.
- No low-water crossings and no culverts are anticipated. Adequate drainage structures will be incorporated into the road.
- No surfacing material will come from federal or Indian lands.
- No gates or cattle guards are anticipated at this time.
- k. Surface disturbance and vehicular travel will be limited to the approved location access road.
- All access roads and surface disturbing activities will conform to the standards outlined in the Bureau of Land Management and Forest Service publication: Surface Operating Standards and Guidelines for Oil and Gas Exploration and Development (Gold Book – Fourth Edition - Revised 2007).
- m. The operator will be responsible for all maintenance of the access road including drainage structures.

Location of Existing Wells:

a. Exhibit B has a map reflecting these wells within a one mile radius of the proposed well.

4. Location of Existing and/or Proposed Production Facilities:

- a. All permanent structures will be painted a flat, non-reflective Covert Green /Carlsbad Canyon to match the standard environmental colors. All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) may be excluded.
- Site security guidelines identified in 43 CFR 3163.7-5 and Onshore Oil and Gas Order No. 3 will be adhered to.
- c. A gas meter run will be constructed and located on lease within 500 feet of the wellhead. Meter runs will be housed and/or fenced. All gas production and measurement shall comply with the provisions of 43 CFR 3162. 7-3, Onshore Oil and Gas Order No. 5, and American Gas Association (AGA) Report No. 3.

- d. A tank battery will be constructed on this lease, it will be surrounded by a dike of sufficient capacity to contain the storage capacity of the largest tank. All loading lines and valves will be placed inside the berm surrounding the tank battery. All liquid hydrocarbons production and measurement shall conform to the provisions of 43 CFR 3162.7-3 and Onshore Oil and Gas Order No. 4 and Onshore Oil and Gas Order No. 5 for natural gas production and measurement.
- e. Any necessary pits will be properly fenced to prevent any wildlife and livestock entry.
- f. All access roads will be maintained as necessary to prevent erosion and accommodate year-round traffic. The road will be maintained in a safe useable condition.
- g. The site will require periodic maintenance to ensure that drainages are kept open and free of debris, ice, and snow, and that surfaces are properly treated to reduce erosion, fugitive dust, and impacts to adjacent areas.
- h. A pipeline corridor containing a single steel gas pipeline and a single steel or poly pipe water pipeline is associated with this application and is being applied for at this time. The proposed pipeline corridor will leave the south side of the well site and traverse 1,200' southeast to the proposed LCU 6-9H pipeline corridor.
- i. XTO Energy, Inc. also requests permission to upgrade the proposed pipeline corridor to contain a single steel gas pipeline and a single steel or poly pipe water pipeline within the previously approved pipeline corridor and traverse between the proposed LCU 6-9H pad and the LCU 15-9H pipeline corridor.
- j. The new and upgraded segments of the gas pipeline will be a 12" or less buried line and the water pipeline will be a 12" or less buried line within a 45' wide disturbed pipeline corridor
- k. Construction of the pipeline corridor will temporarily utilize the 30' disturbed width for the road for a total disturbed width of 75' for the road and pipeline corridors. The use of the proposed well site and access roads will facilitate the staging of the pipeline corridor construction.
- I. XTO Energy, Inc. intends to bury the pipeline where possible and connect the pipeline together utilizing conventional welding technology.

Location and Type of Water Supply:

- a. No water supply pipelines will be laid for this well.
- b. No water well will be drilled for this well.
- c. Drilling water for this will be hauled on the road(s) shown in Exhibit B.
- d. Water will be hauled from one of the following sources:
 - Water Permit # 43-10991, Section 9, T8S, R20E;
 - Water Permit #43-2189, Section 33, T8S, R20E;
 - Water Permit #49-2158, Section 33, T8S, R20E;
 - o Water Permit #49-2262, Section 33, T8S, R20E;
 - Water Permit #49-1645, Section 5, T9S, R22E;
 - Water Permit #43-9077, Section 32, T6S, R20E;
 - o Tribal Resolution 06-183, Section 22, T10S, R20E;

Source of Construction Material:

- a. The use of materials will conform to 43 CFR 3610.2-3.
- b. No construction materials will be removed from Ute Tribal or BLM lands.
- c. If any gravel is used, it will be obtained from a state approved gravel pit.

7. Methods of Handling Waste:

- a. All wastes associated with this application will be contained and disposed of utilizing approved facilities.
- b. Drill cuttings will be contained and buried on site.
- c. The reserve pit will be located outboard of the location and along the east side of the pad.
- d. The reserve pit will be constructed so as not to leak, break, or allow any discharge.
- e. The reserve pit will be lined with 16 mil minimum thickness plastic nylon reinforced liner material. The liner will overlay a felt liner pad only if rock is encountered during excavation. The pit liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash, scrap pipe, etc., that could puncture the liner will be disposed of in the pit. Pit walls will be sloped no greater than 2:1. A minimum 2-foot freeboard will be maintained in the pit at all times during the drilling and completion operation.
- f. The reserve pit has been located in cut material. Three sides of the reserve pit will be fenced before drilling starts. The fourth side will be fenced as soon as drilling is completed, and shall remain until the pit is dry. After the reserve pit has dried, all areas not needed for production will be rehabilitated.
- g. No chemicals subject to reporting under SARA Title III (hazardous materials) in an amount greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completion of the well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completion of the well.
- h. Trash will be contained in a trash cage and hauled away to an approved disposal site as necessary but no later than at the completion of drilling operations. The contents of the trash container will be hauled off periodically to the approved Uintah County Landfill near Vernal, Utah.
- Produced fluids from the well other than water will be produced into a test tank until such time as construction of production facilities is completed. Any spills of oil, gas, salt water or other produced fluids will be cleaned up and removed.
- j. After initial clean-up, a 400 bbl tank will be installed to contain produced waste water. This water will be transported from the tank to an approved XTO Energy, Inc. disposal well for disposal.
- k. Produced water from the production well will be disposed of at the RBU 13-11F or RBU 16-19F disposal wells in accordance with Onshore Order #7.
- Any salts and/or chemicals, which are an integral part of the drilling system, will be disposed of in the same manner as the drilling fluid.

m. Sanitary facilities will be on site at all times during operations. Sewage will be placed in a portable chemical toilet and the toilet replaced periodically utilizing a licensed contractor to transport by truck the portable chemical toilet so that its contents can be delivered to the Vernal Wastewater Treatment Facility in accordance with state and county regulations.

8. Ancillary Facilities:

- a. Garbage Containers and Portable Toilets are the only ancillary facilities proposed in this application.
- b. No camps, airstrips or staging areas are proposed with this application.

9. Well Site Layout: (See Exhibit B)

- a. The well will be properly identified in accordance with 43 CFR 3162.6.
- b. Access to the well pad will be from the south.
- c. The pad and road designs are consistent with BLM and Ute Indian Tribe specifications.
- d. A pre-construction meeting with responsible company representative, contractors, Ute Indian Tribe and the BLM will be conducted at the project site prior to commencement of surface-disturbing activities. The pad and road will be construction-staked prior to this meeting.
- e. The pad has been staked at its maximum size; however it will be constructed smaller if possible, depending upon rig availability. Should the layout change, this application will be amended and approved utilizing a sundry notice.
- f. All surface disturbing activities, will be supervised by a qualified, responsible company representative who is aware of the terms and conditions of the APD and specifications in the approved plans.
- g. All cut and fill slopes will be such that stability can be maintained for the life of the activity.
- h. Diversion ditches will be constructed as shown around the well site to prevent surface waters form entering the well site area.
- i. The site surface will be graded to drain away from the pit to avoid pit spillage during large storm events.
- j. The stockpiled topsoil (first 6 inches or maximum available) will be stored in a windrow on the uphill side of the location to prevent any possible contamination. All topsoil will be stockpiled for reclamation in such a way as to prevent soil loss and contamination.
- k. Pits will remain fenced until site cleanup.
- The blooie line will be located at least 100 feet from the well head.
- m. Water injection may be implemented if necessary to minimize the amount of fugitive dust.

10. Plans for Restoration of the Surface (Interim Reclamation and Final Reclamation):

- a. Site reclamation for a producing well will be accomplished for portions of the site not required for the continued operation of the well.
- b. Upon well completion, any hydrocarbons in the pit shall be removed in accordance with 43 CFR 3162.7-1. Once the reserve pit is dry, the plastic nylon reinforced liner shall be torn and perforated before backfilling of the reserve pit. The reserve pit and that portion of the location not needed for production facilities/operations will be re-contoured to the approximate natural contours.
- c. Following BLM published Best Management Practices the interim reclamation will be completed within 90 days of completion of the well to reestablish vegetation, reduce dust and erosion and compliment the visual resources of the area.
 - a. All equipment and debris will be removed from the area proposed for interim reclamation and the pit area will be backfilled and re-contoured.
 - b. The area outside of the rig anchors and other disturbed areas not needed for the operation of the well will be re-contoured to blend with the surrounding area and reseeded at 12 lbs /acre with the following native grass seeds:

Hy-Crested Wheat Grass
 Needle and Thread Grass
 (4 lbs / acre)
 (4 lbs / acre)

o Squirrel Tail (4 lbs / acre)

- c. Reclaimed areas receiving incidental disturbance during the life of the producing well will be re-contoured and reseeded as soon as practical.
- d. The Operator will control noxious weeds along access road use authorizations, pipeline route authorizations, well sites, or other applicable facilities by spraying or mechanical removal. A list of noxious weeds may be obtained from the Ute Indian Tribe, BLM or the appropriate County Extension Office. On BLM administered land, it is required that a Pesticide Use Proposal be submitted and approved prior to the application of herbicides, pesticides or possibly hazardous chemicals.
- e. Prior to final abandonment of the site, all disturbed areas, including the access road, will be scarified and left with a rough surface. The site will then be seeded and/or planted as prescribed by the Ute Indian Tribe. The Ute Indian Tribe recommended seed mix will be detailed within their approval documents.

11. Surface and Mineral Ownership:

- a. Surface Ownership Ute Indian Tribe under the management of the Energy & Minerals Department, P.O. Box 190, Fort Duchesne, Utah 84026; 435-725-4950
- Mineral Ownership Federal under the management of the Bureau of Land Management - Vernal Field Office, 170 South 500 East, Vernal, Utah 84078; 435-781-4400.

12. Other Information:

a. Operators Contact Information:

Title	Name	Office Phone	Mobile Phone	e e-mail .
Company Rep.	Ken Secrest	435-722-4521	435-828-1450	Ken_Secrest@xtoenergy.com
Agent	Don Hamilton	435-719-2018	435-719-2018	starpoint@etv.net

- b. An Independent Archeologist. has conducted a Class III archeological survey. A copy of the report is attached and has also been submitted under separate cover to the appropriate agencies by An Independent Archeologist.
- c. Alden Hamblin has conducted a paleontological survey. A copy of the report is attached and has also been submitted under separate cover to the appropriate agencies by Alden Hamblin.
- d. Our understanding of the results of the onsite inspection are:
 - a. No Threatened and Endangered flora and fauna species were found during the onsite inspection.
 - b. No drainage crossings that require additional State or Federal approval are being crossed.
 - c. The access road and pipeline corridors were relocated during the onsite inspection to avoid potential T&E plant habitat.
 - d. The pit will be constructed with a double-felt liner to help minimize the opportunity for puncture.

Certification:

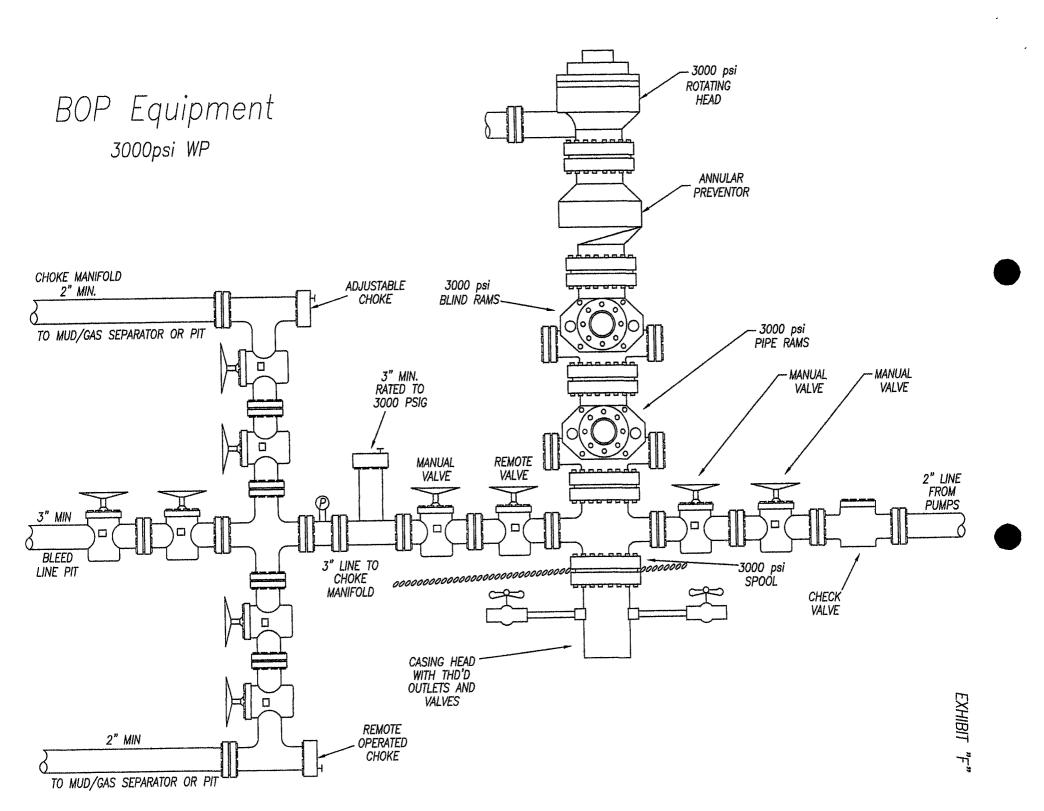
I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exists; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application and that bond coverage is provided under XTO Energy, Inc's BIA bond 104312 789-BIA. These statements are subject to the provisions of 18 U.S.C. 1001 for the fling of false statements.

Executed this 5th day of June, 2008.

Don Hamilton -- Agent for XTO Energy, Inc.

2580 Creekview Road Moab, Utah 84532

435-719-2018 starpoint@etv.net



Dominion Exploration & Production:
Little Canyon Unit #3-9H;
A Cultural Resource Inventory for a well pad
its access and flowline,
Uintah County, Utah.

By
James A. Truesdale
Principal Investigator

Prepared For
Dominion Exploration & Production
1400 North State Street
P.O.Box 1360
Roosevelt, Utah
84066

Prepared By
AN INDEPENDENT ARCHAEOLOGIST
P.O.Box 153
Laramie, Wyoming
82073

Utah Project # U-05-AY-275(b,i)

August 26, 2005

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Introduction

An Independent Archaeologist (AIA), was contacted by a representative of Dominion Exploration & Production, to conduct a cultural resources survey investigation of the proposed Little Canyon Unit (LCU) #3-9H well location, its access and flowline. The location of the LCU #3-9H well pad is in the NW/NW 1/4 of Section 9, T11S, R20E, Uintah County, Utah (Figure 1).

The proposed Little Canyon Unit (LCU) #3-9H well will be directionally drilled from the LCU #4-9H well pad. The proposed Little Canyon Unit (LCU) #3-9H well centerstake footage is 793' FNL, 1141' FWL. The Universal Transverse Mercator (UTM) centroid coordinate for the proposed LCU #3-9H well centerstake is Zone 12, North American Datum (NAD) 83, 06/12/067.35 mE 44/15/257.26 mN ±5m.

The proposed access and pipeline is an existing oil and gas field service road and pipeline that is associated with the LCU #4-9H well pad.

The land surface and minerals in the NW/NW 14 of Section 9 of T11S R20E is administered by the U.S. Department of Interior (DOI), Bureau of Indian Affairs (BIA), Phoenix Area Office, Uintah-Ouray Agency and the Uintah-Ouray Ute Tribe. A total of 10 acres (10 block, 0 linear) was surveyed.

The field work was conducted on August 10, 2005 by AIA archaeologist James Truesdale (Owner/Principal Investigator). AIA personnel were accompanied by Mr. Dustin Nephi (Technician, Energy and Minerals Department, Uintah-Ouray Ute Tribe). All the field notes and maps are located in the AIA office in Laramie, Wyoming.

File Search

A file search was conducted by the Utah Division of State History (UDSH), Antiquities Section, Records Division in April 11, 2005 and at the Vernal BLM office in May of 2005 by the author. addition, a update of AIA's USGS 7.5'/1968 quadrangle maps Big Pack Mountain, Big Pack Mountain NW, Big Pack Mountain NE, Big Pack Mountain SE, and Moon Bottom maps from the UDSH's Big Pack Mountain, Big Pack Mountain NW, Big Pack Mountain NE, Big Pack Mountain SE, and Moon Bottom maps occurred on November 8, 2003 and again on February 3, 2004. The UDSH SHPO GIS files search indicate that one project (U-02-MQ-243) was previously conducted in the general area. In addition, no cultural materials have been previously recorded in the immediate project area. Review of AIA records and maps indicates that one additional project (U-05-AY-276b,i) was recorded in the immediate project area. project was conducted by AIA for the LCU #4-9H well, its access and pipeline (Truesdale 2005). In addition, AIA records indicate that additional previously recorded projects and/or cultural materials have been recorded in the general project area.

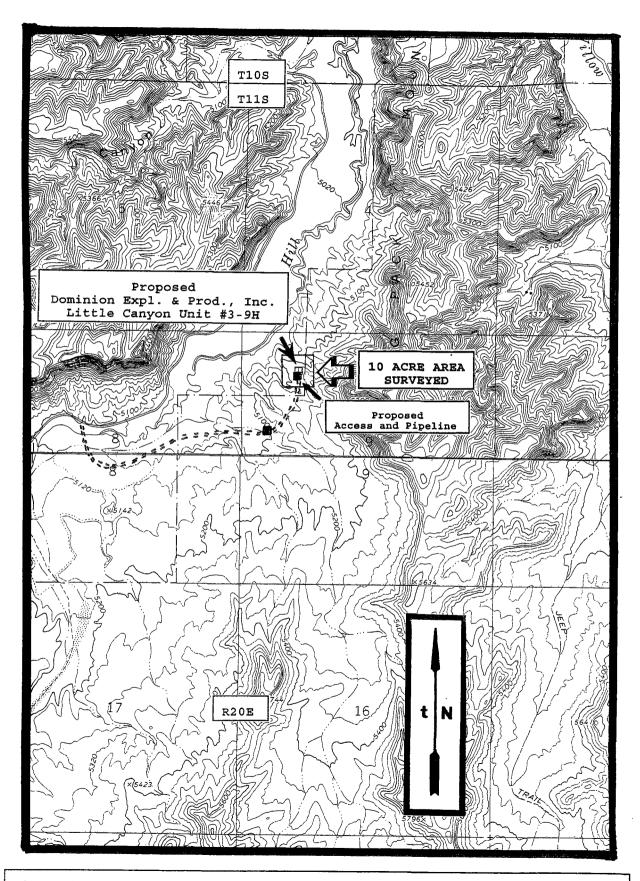


Figure 1. Location of the Dominion Exploration & Production, Inc. proposed Little Canyon Unit #3-9H well, its access and pipeline on 7.5'/1968 USGS quadrangle maps Big Pack Mountain NW and Big Pack Mountain, Uintah County, Utah.

Environment

Physiographically, the project is located in the Uinta Basin, eighteen miles south of Ouray, Utah. A portion of the Little Canyon Unit is situated between Hill and Willow Creek Canyons along the southern portion of Big Pack Mountain. The Uinta Basin is structurally the lowest part of the Colorado Plateau geographical province (Thornbury 1965:325). The Uinta Basin is a large, relatively flat, bowl shaped, east-west asymmetrical syncline near the base of the Uinta Mountains (Stokes 1986:231). The topography is characterized as having sloping surfaces which incline northward that are mainly dip slopes on the harder layers of Green River and Uinta Formations. A thick section of more than 9000 feet (2743.9 m) of early Tertiary rocks are exposed (Childs 1950). These rocks are mainly Paleocene and Eocene in age and consist of sandstone, clay and shale lacustrine, fluviatile, and deltaic continental deposits, most famous of which are the lacustrine Green River Beds.

The immediate project area is situated in the desert badlands landscape located along the western slope of Big Pack Mountain adjacent immediately east of Hill Creek. These desert badlands are dominated by hills, ridges and knolls with exposed and eroding Uintah formation sandstone, clay and shale. These hills, ridges and knolls are dissected by small ephemeral drainage washes. Sediments in this portion of the Little Canyon Unit are colluvial in nature and consist of shallow (<5 cm), poorly sorted, loosely compacted, tan to light brown, grey to grayish brown, sandy clay loam, mixed with tiny to small angular pieces of sandstone, clay and shale. In the drainages, the colluvium is mixed with rounded to sub-rounded, flat, fluvial gravel. Portions of the desert hardpan (slickrock) and exposed and eroding clay and shale bedrock in this portion of the Little Canyon Unit may be covered with aeolian sand which can reach a depth between 50 to 100 centimeters.

Vegetation in this portion of the Little Canyon Unit adjacent to Hill Creek is characteristic of a low sagebrush community with shadscale and greasewood. Species observed in the project area include; wax current (Ribes cerum), serviceberry (Amelanchier mountain mahogany utahensis), (Cercocarpus sp.), chokecherry sp.), shadscale (Atriplex confertifolia), (Prunus saltbush (Atriplex nuttallii), rabbitbrush (Chrysothamnus viscidiflorus), big sagebrush (Artemesia tridentata), budsage (Artemesia spinescens), winterfat (Eurotia lanata), greasewood (Sarcobatus baileyi), wild buckwheat (Erigonum ovvalifolium), desert trumpet (Erigonum inflatum), yellow crypthantha (Crypthantha flava), western pink vervain (Verbana ambrosifolia), long-leaved phlox (Phlox longifolia), crescent milkvetch (Astraggalus anphioxys), globemallow (<u>Bromus tectorum</u>), peppergrass (Lepidium perfoliatum), Russian thistle (Salsola kali), and prickly pear cactus (Opuntia spp.). In addition, a riparian community dominated by tall greasewood and salt cedar (tamerix) may be found along Hill Creek 1 mile to the west.

Little Canyon Creek (LCU) #3-9H

The proposed Little Canyon Unit #3-9H well will be directionally drilled from the existing LCU #4-9H well pad. The proposed LCU #3-9H well centerstake (793' FNL, 1141' FWL) is located 15 feet (4.5 m) north and 1 foot (.3 m) east of the LCU #4-9H well centerstake (818' FNL, 1140' FWL) (Figures 2 and 3).

The immediate proposed Little Canyon Creek (LCU) #3-9H well centerstake and LCU #4-9H well pad is situated on small bench located on an east to west trending ridge (Figure 2). The bench and ridge surface, surrounding the proposed well pad, is dominated by exposed and eroding sandstone, clay and shale bedrock. Sediments on the well pad are sparse and colluvial in nature. colluvial deposits consist of poorly sorted, loosely compacted, white, tan to light brown, sandy clay loam, mixed with tiny to small, flat angular pieces of sandstone, clay and shale gravel (Figure 3). Observation of eroding slopes, cutbanks, and rodent burrow holes indicates that these colluvial deposits are shallow (<5 cm). Vegetation is sparse and consists of low sagebrush, budsage, saltbush, rabbitbrush, crescent wheatgrass, indian ricegrass, cheatgrass, Russian thistle, halogeton, and prickly pear cactus. The well elevation is 6504.24 feet (1983 m) AMSL.



Figure 3. View to east at the proposed Little Canyon Unit (LCU) #3-9H well centerstake and well pad area.

The LCU #3-9H well's proposed access and pipeline is the existing oil and gas field service road and pipeline associated with the existing LCU #4-9H well pad.

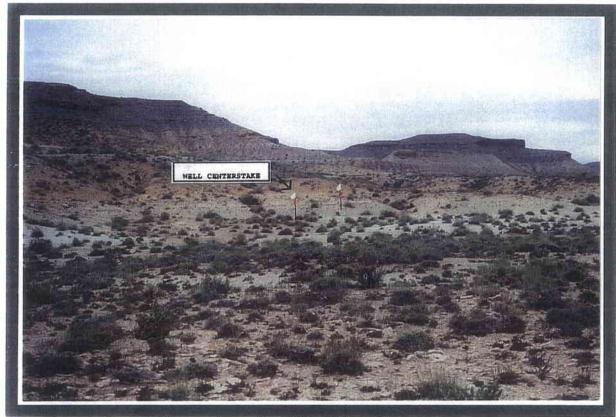


Figure 4. Oblique view of colluvial sediments on and surrounding the proposed Little Canyon Unit #3-9H centerstake and well pad.

The general project area has been trampled by cattle and sheep. In addition, the ephemeral drainage washes and colluvial talus slopes have been heavily impacted by White Tailed Prairie Dog (Cynomys sp.) activity (burrows and holes, mounds).

Field Methods

A total of 10 acres was surveyed around the centerstake of the proposed LCU #3-9H well location to allow for relocation of the pad if necessary. The survey was accomplished by walking transects spaced no more than 15 and 20 meters apart. The proposed access and pipeline is an existing oil and gas field service road and pipeline that is associated with the existing LCU #3-9H well pad. Therefore, the proposed LCU #3-9H well's access and pipeline are situated within the 10 acre area surveyed around the proposed well centerstake. Thus, 0 linear acres was surveyed.

Geologic landforms (rockshelters, alcoves, ridge tops and saddles) and areas of subsurface exposure (ant hills, blowouts,

rodent holes and burrow, eroding slopes and cutbanks) were examined with special care in order to locate cultural resources (sites, isolates) and possibly help assess a site's sedimentary integrity and potential for the presence and/or absence of buried intact cultural deposits. The entire surface area of ridge tops were covered. All exposures of sandstone cliff faces, alcoves or rockshelter, and talus slopes were surveyed.

When cultural materials are discovered, a more thorough survey of the immediate vicinity is conducted in order to locate any associated artifacts and to determine the horizontal extent (surface area) of the site. If no other artifacts are located during the search then the initial artifact is recorded as an isolated find. At times, isolated formal tools (typical end scrapers, projectile points) were drawn and measured. The isolate was then described and its location plotted on a U.S.G.S. topographic map using UTM coordinates.

When sites are found an Intermountain Antiquities Computer System (IMACS) form is used to record the site. At all sites, selected topographic features, site boundaries, stone tools and cultural features (hearths, foundations, trash dumps and trails) are mapped. Sites are mapped onto a 1:10 cm K&E grid paper using a Brunton compass, UTM coordinates from a Garmin E Trex, and pacing off distances from a mapping station (datum = PVC pipe with aluminum tag). All debitage is inventoried using standard recording techniques (Truesdale et al 1995:7) according to material type, basic flake type, and so on. Selected (mostly complete) stone tools and projectile points are drawn and/or measured. All features (rockart panel(s), hearths, foundations, trash dumps and trails), are measured and described, while selected features are either drawn or photographed.

Site location data is recorded by a Trimble GeoExplorer 3 and/or a GARMIN GPS III Plus or E-Trex Legend. Universal Transverse Mercator (UTM) grid data is recorded in an obvious way (ie. UTM Zone 12; NAD 83; centroid coordinate: 06/15/927 mE 44/17/443 mN), along with its Estimated Position Error (EPE) and Dilution of Precision (DOP). Site elevations are taken along with each UTM coordinate. Using the GPS data, the site location is then placed on a USGS 7.5' quadrangle map.

Results

A total of 10 acres (10 block, 0 linear) were surveyed for cultural resources on and around the proposed Dominion Exploration and Production, Inc. Little Canyon Creek (LCU) #3-9H well pad and along its access and flowline. No cultural resources (site, isolate) were recorded during the survey.

The proposed LCU #3-9H well will be directionally drilled from the existing LCU #4-9H well pad.

In addition, a moderate scatter of modern trash (plastic bottles, sanitary food cans, miscellaneous metal, wire, green, brown and clear glass bottles and bottle fragments, foam insulation) can be found on and surrounding the existing well pads and along some of the two track roads, and along the oil and gas field service roads in the Hill and Willow Creek Canyon, and the Little Canyon Unit gas field area.

Recommendations

A total of 10 acres (10 block, 0 linear) were surveyed for cultural resources on and around the proposed Dominion Exploration and Production, Inc. Little Canyon Unit (LCU) #3-9H well and along its access and flowline. No cultural resources (sites and/or isolates) were recorded during the survey.

The proposed LCU #3-9H well will be directionally drilled from the existing LCU #4-9H well pad.

A moderate scatter of modern trash (plastic bottles, sanitary food cans, miscellaneous metal, wire, green, brown and clear glass bottles and bottle fragments, foam insulation) can be found on and surrounding the existing well pads and along some of the two track roads and the existing oil and gas field service roads in the Hill and Willow Creek Canyons, and in the Little Canyon Unit gas field area.

No cultural resources (historic properties, isolates) were recorded during the survey for the proposed Little Canyon Unit (LCU) #3-9H well, its access and pipeline. The possibility of buried and/or intact cultural materials on the proposed well pad, or along its access and pipeline is low. Therefore, the construction of the access and pipeline will not impact any significant cultural materials.

Thus, no additional archaeological work is necessary and clearance is recommended for the construction of the Little Canyon Unit (LCU) #3-9H well pad, its access and flowline.

References Cited

- Childs, O.E.
 - 1950 Geologic history of the Uinta Basin, Utah Geological and Mineralogical Survey. <u>Guidebook to the Geology of Utah</u>, NO. 5:49-59.
- Stokes, William Lee
 - 1986 Geology of Utah. Contributions by Utah Museum of Natural History, and Utah Geological and mineral Survey Department of Natural Resources. <u>Utah Museum of Natural History</u>, Occasional Papers, Number 6.
- Thornbury, William D.
 - 1965 Regional Geomorphology of the United States. John Wiley & Sons, Inc.
- Truesdale, James A.
 - 2005 Dominion Exploration & Production: Little Canyon Unit #4-9H; A Cultural Resource Inventory for a well pad its access and flowline, Uintah County, Utah. Report prepared by AIA for Dominion Exploration & Production. Report on file at the AIA office in Laramie, Wyoming.
- Truesdale, James A., Kathleen E. Hiatt, and Clifford Duncan
 1995 Cultural Resource Inventory of the Proposed Ouray Gravel
 Pit Location, Uintah-Ouray Ute Reservation, Uintah
 County, Utah. Report prepared for U & W Construction,
 Ft. Duchesne, Utah by AIA, Laramie, Wyoming.

PALEONTOLOGY EVALUATION SHEET

PROJECT: Dominion Well LCU #3-9H & #4-9H

LOCATION: 14 miles south of Ouray, Utah. Section 9, NW ¼ NW ¼ , T11S, R20E, Uintah County, Utah.

OWNERSHIP: PRIV[] STATE[] BLM[X] USFS[] NPS[] IND[X] MIL[] OTHER[] Most of the road is on BLM land. The well location is on Ute Tribal land.

DATE: April 16, 2007

GEOLOGY/TOPOGRAPHY: This is gray-green shale of the upper part of the Green River Formation, Upper Eocene. Road and pipeline come in from the southwest. Location sits on the west side of a hill at the foot of the hill with a terrace to the west. Pit is into the hill.

PALEONTOLOGY SURVEY: YES [X] NO Survey [] PARTIAL Survey []

SURVEY RESULTS: Invertebrate [] Plant [X] Vertebrate [] Trace [] No Fossils Found [] Found a few leaf impressions at several places in a thin, platy sandstone on or near the proposed road. Recorded as fossil locality 42Un2150P.

PALEONTOLOGY SENSITIVITY: HIGH [] MEDIUM [x] LOW [X] (PROJECT SPECIFIC)

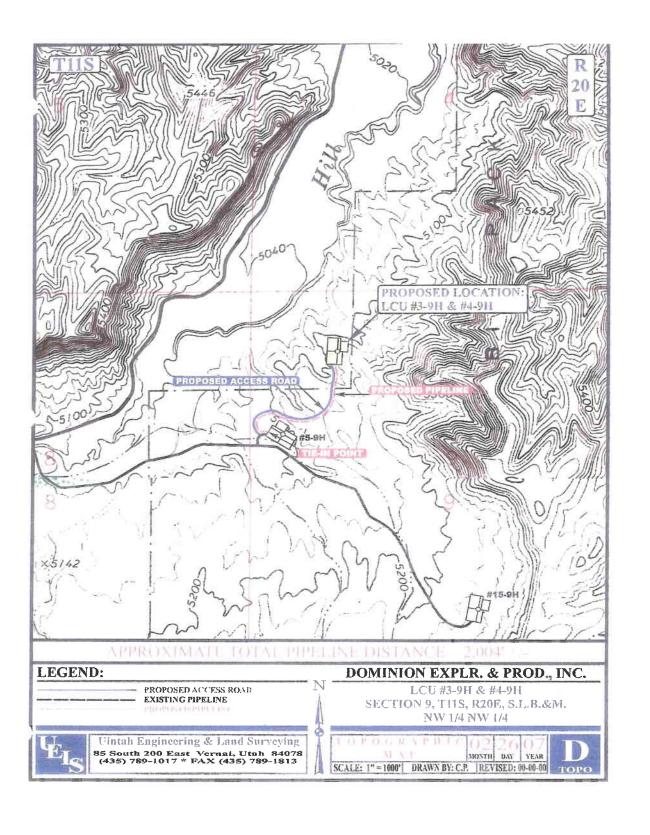
MITGATION RECOMMENDATIONS: NONE [X] OTHER [] (SEE BELOW)

No recommendations are being made. Road construction could dig up other, better preserved specimens.

There is always some potential for discovery of significant paleontological resources in the Green River Formations. If significant vertebrate fossils (mammals, crocodiles, complete turtle shells, etc.) are encountered during construction, work should stop in that area and a paleontologist should be contacted to evaluate the material discovered.

PALEONTOLOGIST: Alden H. Hamblin

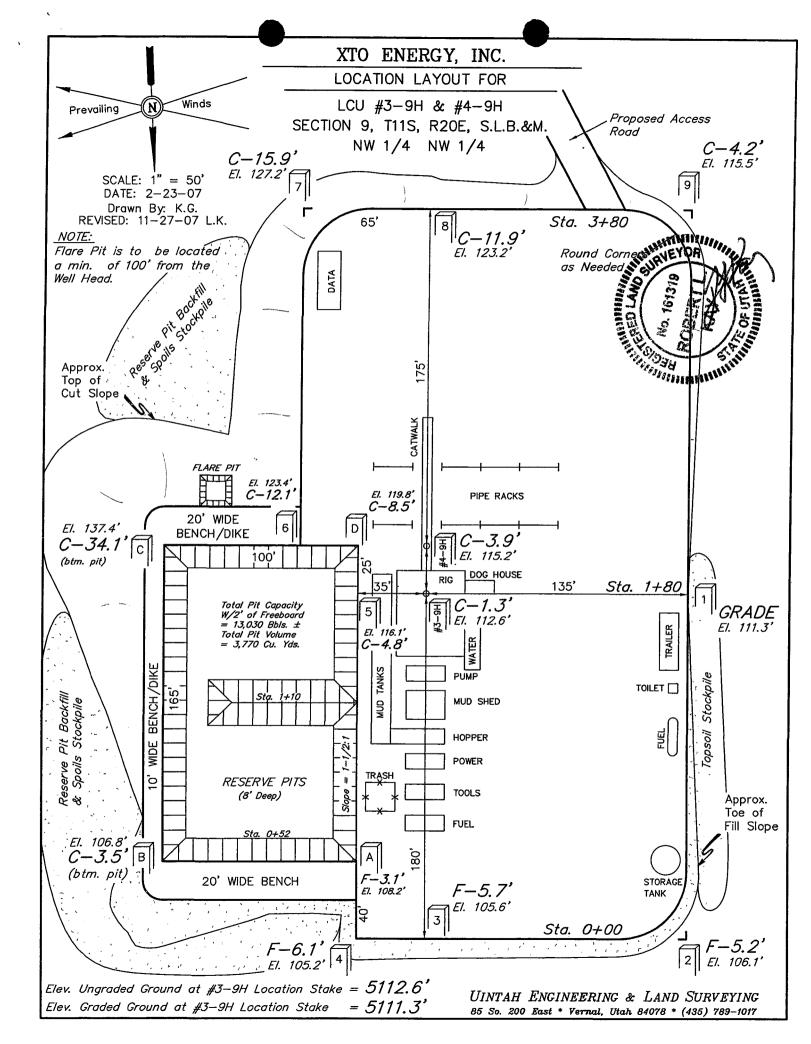
A.H. Hamblin Paleontological Consulting, 3793 N. Minersville Highway, Cedar City, Utah 84720 (435) 867-8355 Utah State Paleontological Permit # 07-355, BLM paleontological Resources Permit # UT-S-05-02, Utah Tribe Access Permits – 09/30/06 & 03/31/07. Utah Professional Geologist License – 5223011-2250.

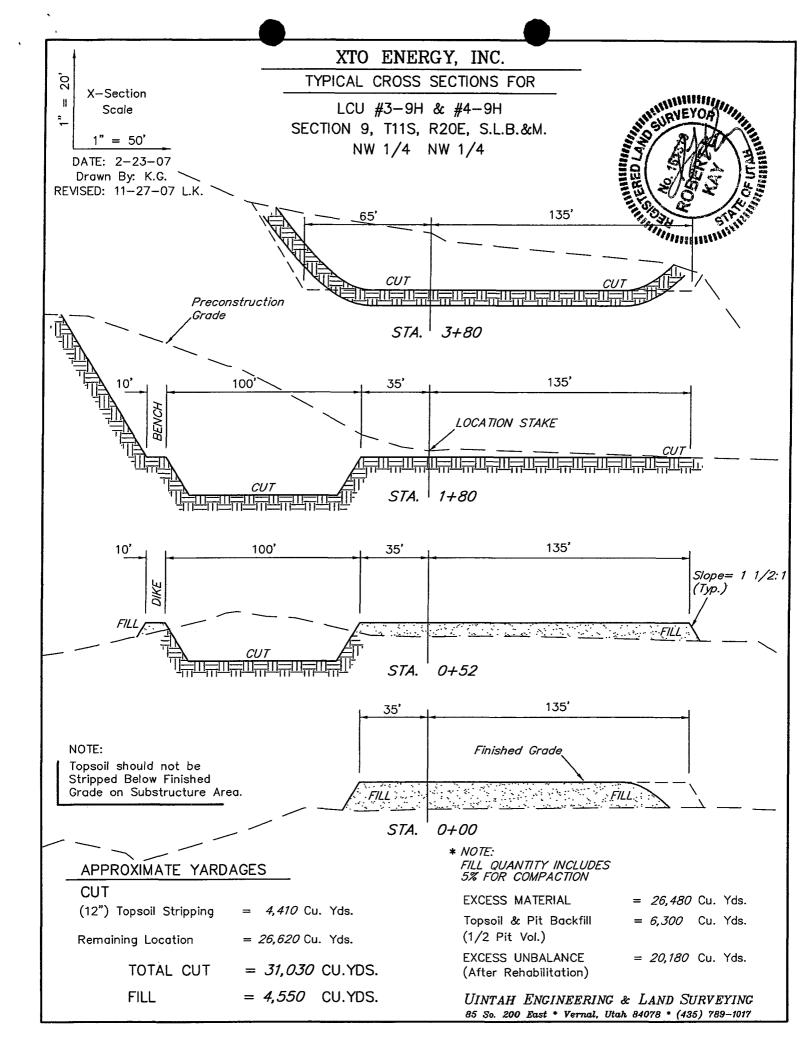


XTO ENERGY, INC. LCU #3-9H & #4-9H SECTION 9, T11S, R20E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 9.1 MILES ON THE SEEP RIDGE ROAD TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN RIGHT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 2.8 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE WEST; TURN RIGHT AND IN Α WESTERLY, THEN SOUTHWESTERLY APPROXIMATELY 6.6 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN LEFT AND PROCEED IN A SOUTHEASTERLY, THEN NORTHEASTERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 1.1 MILES TO THE BEGINNING OF THE PROPOSED ACCESS FOR THE #6-9H TO THE NORTHEAST; FOLLOW ROAD **FLAGS** IN NORTHEASTERLY, THEN WESTERLY APPROXIMATELY 0.15 MILES TO THE PROPOSED #6-9H AND THE BEGINNING OF THE PROPOSED ACCESS TO THE NORTHWEST; FOLLOW ROAD FLAGS IN A NORTHWESTERLY DIRECTION APPROXIMATELY 0.25 MILES TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 51.0 MILES.





XTO ENERGY, INC.

LCU #3-9H & #4-9H

LOCATED IN UINTAH COUNTY, UTAH SECTION 9, T11S, R20E, S.L.B.&M.

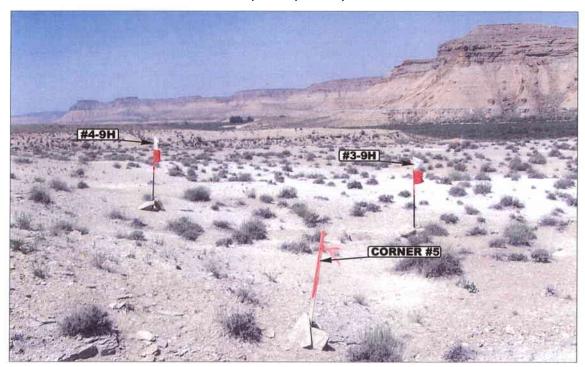


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: WESTERLY

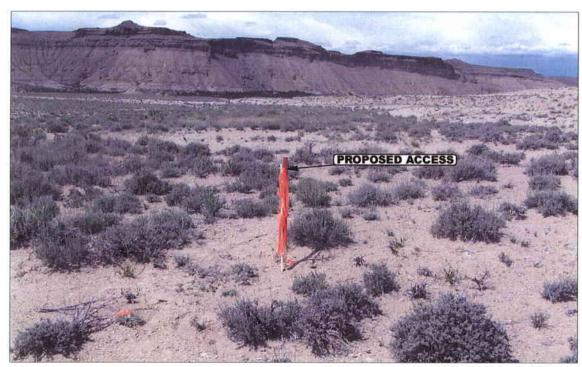


PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: NORTHWESTERLY



Uintah Engineering & Land Surveying 85 South 200 East Vernal, Utah 84078 435-789-1017 uels@uelsinc.com

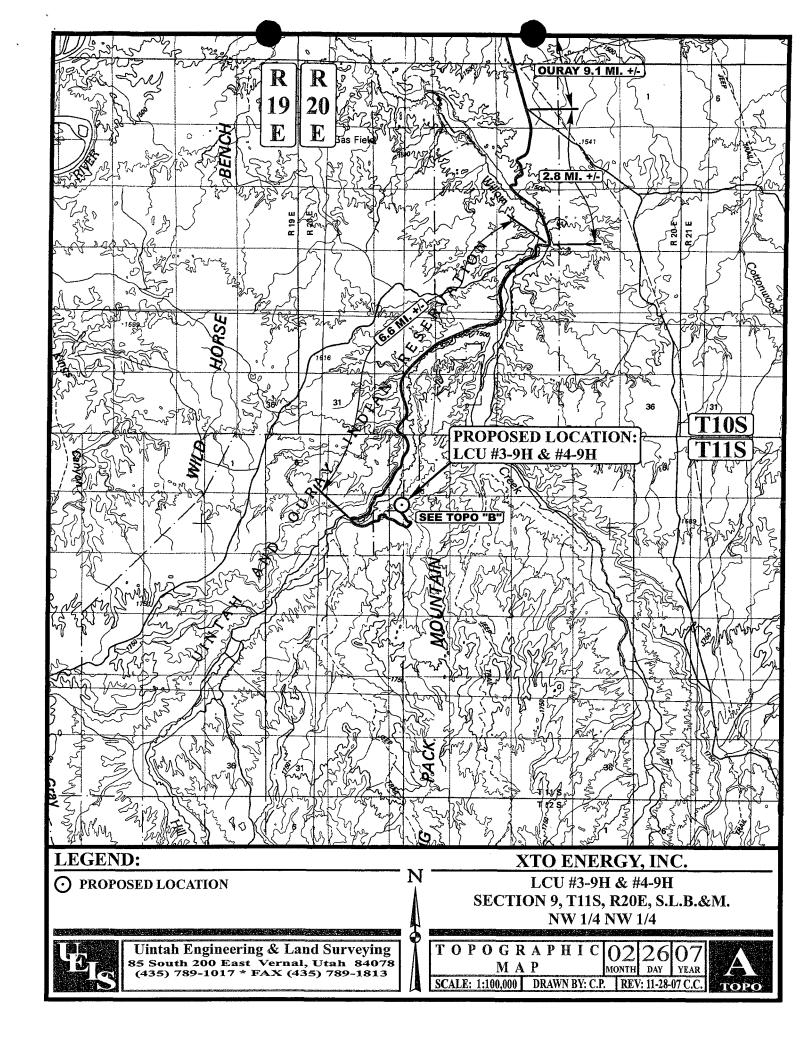
LOCATION PHOTOS

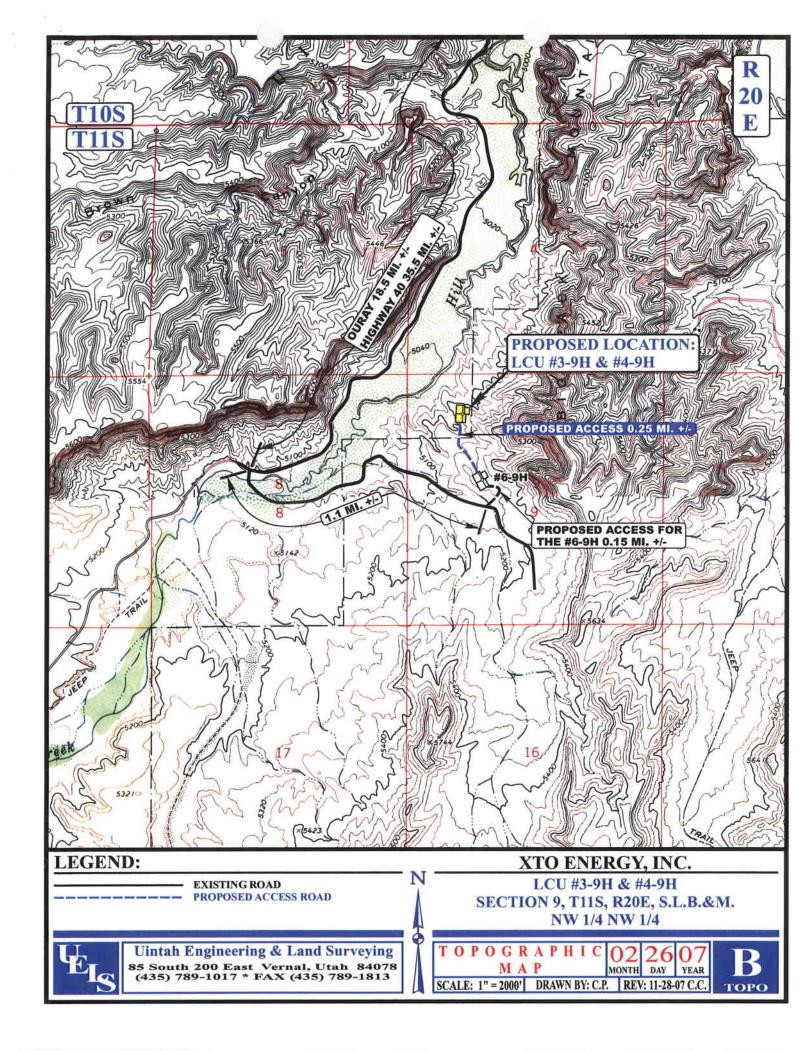
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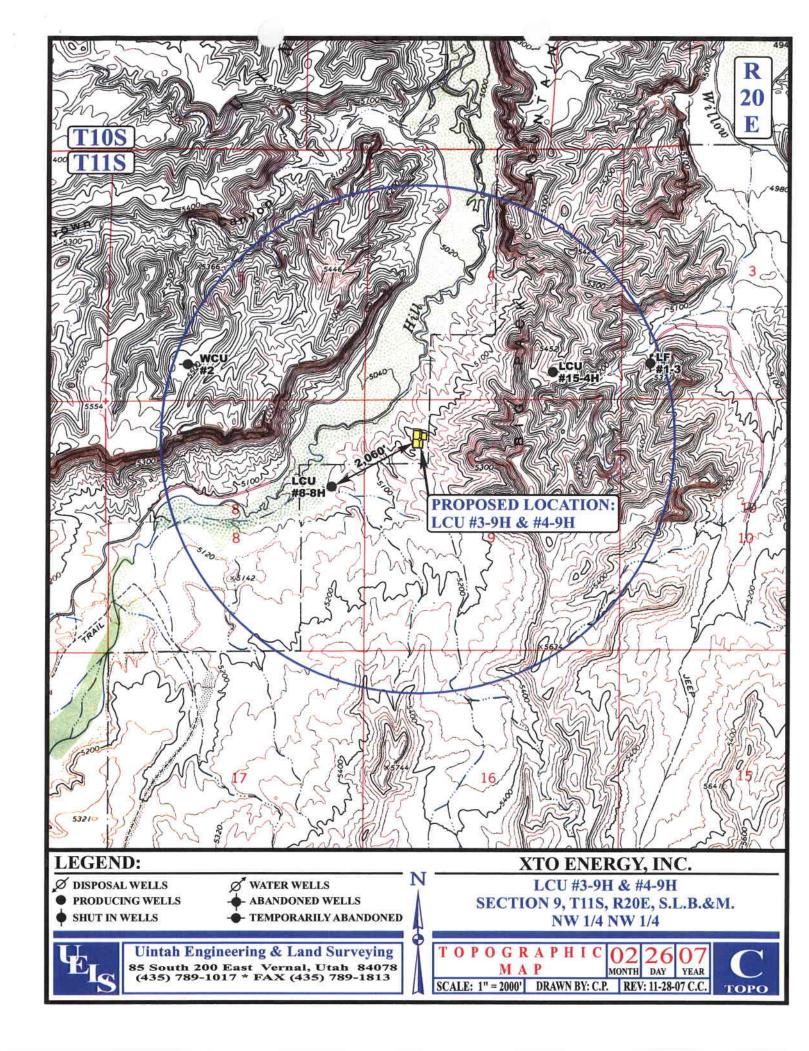
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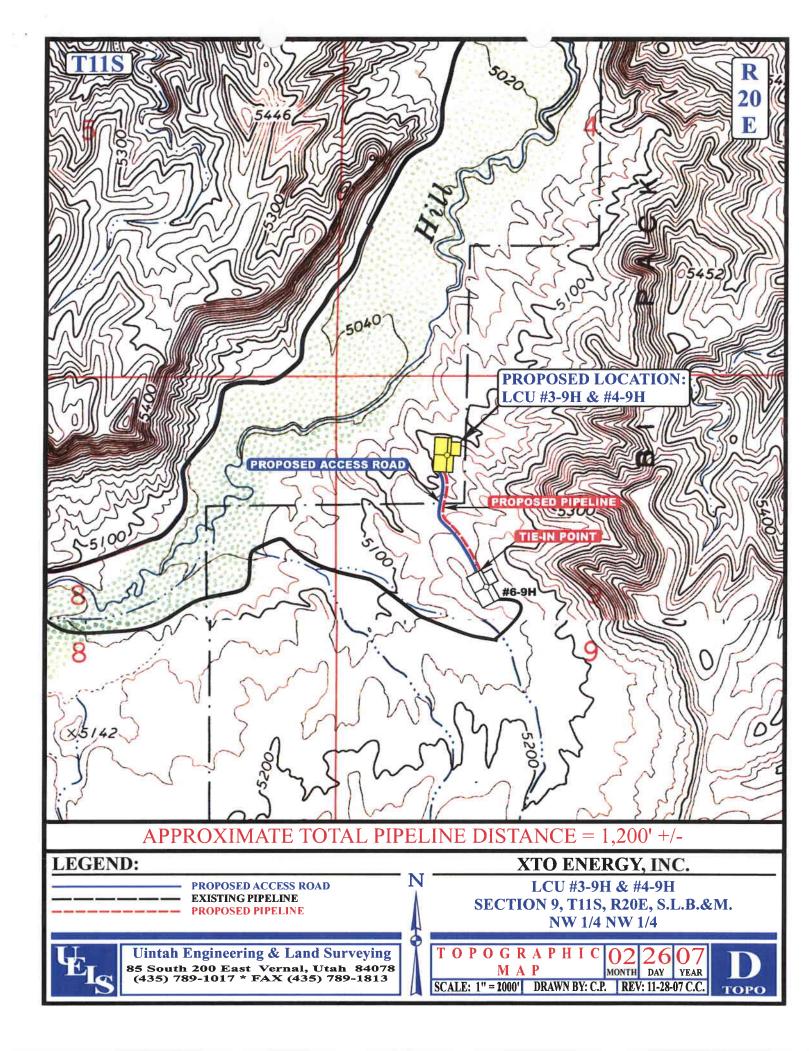
TAKEN BY: D.A. DRAWN BY: C.P. REV: 11-28-07 C.C.

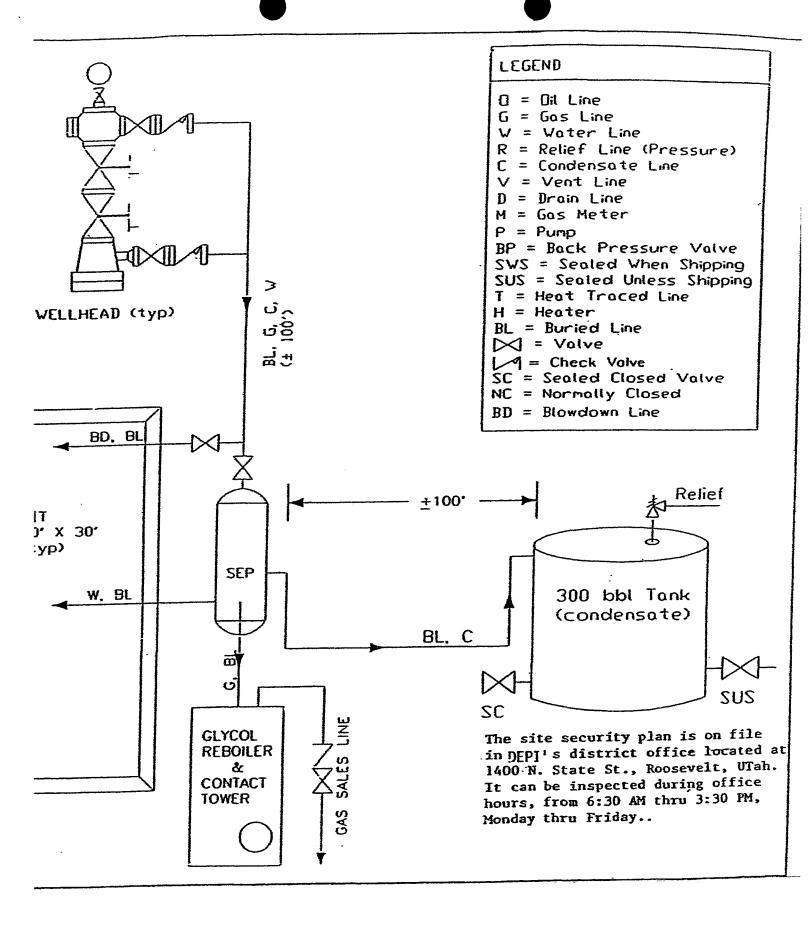
- Since 1964 -

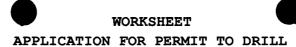




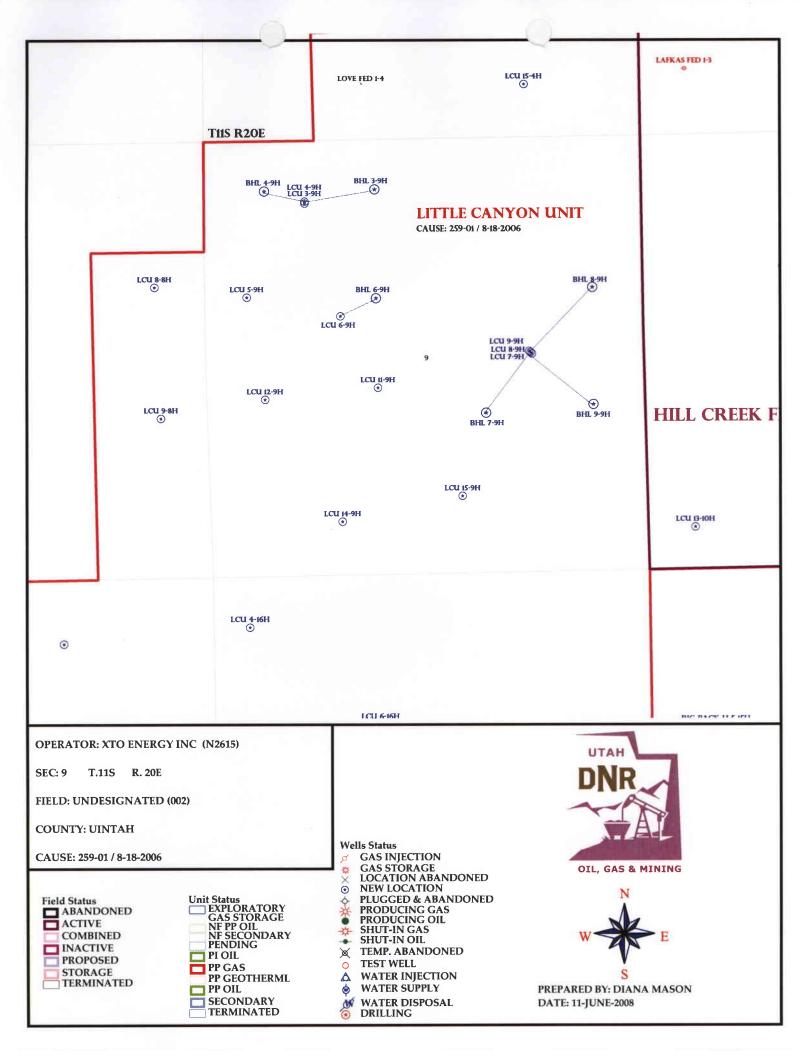








APD RECEIVED: 06/10/2008	API NO. ASSIGNED: 43-047-40127
WELL NAME: LCU 3-9H	-
OPERATOR: XTO ENERGY INC (N2615)	PHONE NUMBER: 435-722-4521
CONTACT: DON HAMILTON	
PROPOSED LOCATION:	INSPECT LOCATN BY: / /
NWNW 09 110S 200E	Tech Review Initials Date
SURFACE: 0793 FNL 1141 FWL BOTTOM: 0660 FNL 1980 FWL	Engineering
COUNTY: UINTAH	Geology
LATITUDE: 39.88003 LONGITUDE: -109.6885	
UTM SURF EASTINGS: 612146 NORTHINGS: 441505 FIELD NAME: UNDESIGNATED (2)	
LEASE NUMBER: UTU-34350 SURFACE OWNER: 2 - Indian	PROPOSED FORMATION: WSMVD COALBED METHANE WELL? NO
RECEIVED AND/OR REVIEWED:	LOCATION AND SITING:
Plat	R649-2-3.
Bond: Fed[1] Ind[] Sta[] Fee[]	Unit: LITTLE CANYON
(No. 104312 789) N Potash (Y/N)	R649-3-2. General
○ Oil Shale 190-5 (B) or 190-3 or 190-13	Siting: 460 From Qtr/Qtr & 920' Between Wells
Water Permit	R649-3-3. Exception
(No. 43-10991) RDCC Review (Y/N)	Drilling Unit
(Date:)	Board Cause No: 259-01 Eff Date: 9:18-06
Fee Surf Agreement (Y/N)	Siting: 460' frubar funcionm. Tr
NA Intent to Commingle (Y/N)	R649-3-11. Directional Drill
COMMENTS:	
STIPULATIONS:	Oppros







MICHAEL R. STYLER Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

June 11, 2008

XTO Energy, Inc. P O Box 1360 978 North Crescent Roosevelt, UT 84066

Re:

LCU 3-9H Well, Surface Location 793' FNL, 1141' FWL, NW NW, Sec. 9, T. 11 South,

R. 20 East, Bottom Location 660' FNL, 1980' FWL, NE NW, Sec. 9, T. 11 South.

R. 20 East, Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann.§ 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-40127.

Sincerely,

Gil Hunt

Associate Director

Hir 76t

pab Enclosures

cc:

Uintah County Assessor

Bureau of Land Management, Vernal Office



Operator:	XTO Energy, Inc.		
Well Name & Number	LCU 3-9H		
API Number:	43-047-4	10127	
Lease:	UTU-34350		
Surface Location: NW NW	Sec. 9	T. 11 South	R. <u>20 East</u>
Bottom Location: NE NW	Sec. 9	T. 11 South	R. 20 East

Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

Notify the Division within 24 hours of spudding the well.

Contact Carol Daniels at (801) 538-5284

Notify the Division prior to commencing operations to plug and abandon the well.

• Contact Dustin Doucet at (801) 538-5281 (801) 733-0983 home

3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

- 4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.
- 5. In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

	STATE OF UTAH		FORM 9
	DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-34350
	RY NOTICES AND REPORTS		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE
	sals to drill new wells, significantly deepen igged wells, or to drill horizontal laterals. U		7.UNIT or CA AGREEMENT NAME: LITTLE CANYON
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: LCU 3-9H
2. NAME OF OPERATOR: XTO ENERGY INC			9. API NUMBER: 43047401270000
3. ADDRESS OF OPERATOR: 382 Road 3100 , Aztec, NM, 8	7410 505 333-3159 Ext	PHONE NUMBER:	9. FIELD and POOL or WILDCAT: UNDESIGNATED
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0793 FNL 1141 FWL			COUNTY: UINTAH
QTR/QTR, SECTION, TOWNSHI	P, RANGE, MERIDIAN: 9 Township: 11.0S Range: 20.0E Meridian:	S	STATE: UTAH
11. CHE	CK APPROPRIATE BOXES TO INDICAT	E NATURE OF NOTICE, REPORT,	OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	ACIDIZE	ALTER CASING	CASING REPAIR
✓ NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
6/11/2010	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	☐ NEW CONSTRUCTION
Dute of tronk completions	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
SPUD REPORT	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
	☐ TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL
DRILLING REPORT Report Date:	☐ WATER SHUTOFF	SI TA STATUS EXTENSION	✓ APD EXTENSION
·	☐ WILDCAT WELL DETERMINATION	OTHER	OTHER:
	MPLETED OPERATIONS. Clearly show all per		
XTO hereby requests	a one year extension on state well.	e permit for the referenced	Approved by the
	wen.		Utah Division of
			Oil, Gas and Mining
		_	
		D	ate: July 23, 2009
		В	y: Dallyfill
NAME (PLEASE PRINT) Eden Fine	PHONE NUMBER 505 333-3664	TITLE Permitting Clerk	
SIGNATURE N/A		DATE 7/17/2009	



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047401270000

API: 43047401270000

Well Name: LCU 3-9H

Location: 0793 FNL 1141 FWL QTR NWNW SEC 09 TWNP 110S RNG 200E MER S

Company Permit Issued to: XTO ENERGY INC

Date Original Permit Issued: 6/11/2008

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that req

information as subr uire revision. Follow	nitted in the previously approved a ing is a checklist of some items rel	application to drill, remains valid and does not lated to the application, which should be verified.
• If located on privupdated?		ed, if so, has the surface agreement been
	een drilled in the vicinity of the pronts for this location? 🗍 Yes 📵	oposed well which would affect the spacing or No
	ny unit or other agreements put in well? (Yes (No	place that could affect the permitting or operation
	any changes to the access route inc ed location? Yes No	cluding ownership, or rightof- way, which could
• Has the approved	source of water for drilling change	ed? 🗍 Yes 📵 No
	any physical changes to the surface rom what was discussed at the ons	e location or access route which will require a site evaluation? 💮 Yes 📵 No
• Is bonding still in	place, which covers this proposed	Approved by the well? Tes No Utah Division of Oil, Gas and Mining
nature: Eden Fine	Date: 7/17/2009	
Title: Permitting (Clerk Representing: XTO ENERGY INC	C Date: July 23, 2009
, , , , , , , , , , , , , , , , , , , ,		J. 200 CM W

Sig

	STATE OF UTAH		FORM 9
	DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-34350
	RY NOTICES AND REPORTS ON		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE
	sals to drill new wells, significantly deepen exis gged wells, or to drill horizontal laterals. Use A		7.UNIT or CA AGREEMENT NAME: LITTLE CANYON
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: LCU 3-9H
2. NAME OF OPERATOR: XTO ENERGY INC			9. API NUMBER: 43047401270000
3. ADDRESS OF OPERATOR: 382 Road 3100 , Aztec, NM, 8		PHONE NUMBER:	9. FIELD and POOL or WILDCAT: UNDESIGNATED
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0793 FNL 1141 FWL QTR/QTR, SECTION, TOWNSHI	D DANCE MEDIDIAN.		COUNTY: UINTAH
	9 Township: 11.0S Range: 20.0E Meridian: S		STATE: UTAH
11. CHE	CK APPROPRIATE BOXES TO INDICATE N	ATURE OF NOTICE, REPORT,	OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
✓ NOTICE OF INTENT	ACIDIZE	ALTER CASING	☐ CASING REPAIR
Approximate date work will start: 6/11/2011	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:		FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	PLUG AND ABANDON	☐ PLUG BACK
SPUD REPORT	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE SIDETRACK TO REPAIR WELL	RECOMPLETE DIFFERENT FORMATION
Date of Spud:	☐ TUBING REPAIR	VENT OR FLARE	☐ TEMPORARY ABANDON ☐ WATER DISPOSAL
		SI TA STATUS EXTENSION	✓ APD EXTENSION
DRILLING REPORT Report Date:			
		OTHER	OTHER:
l .	MPLETED OPERATIONS. Clearly show all pertinencests a one year extension on the referenced well.	State Permit for the	Approved by the Utah Division of Oil, Gas and Mining ate: June 23, 2010 y:
NAME (PLEASE PRINT) Eden Fine	PHONE NUMBER 505 333-3664	TITLE Permitting Clerk	
SIGNATURE N/A		DATE 6/17/2010	



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047401270000

API: 43047401270000

Well Name: LCU 3-9H

Location: 0793 FNL 1141 FWL QTR NWNW SEC 09 TWNP 110S RNG 200E MER S

Company Permit Issued to: XTO ENERGY INC

Date Original Permit Issued: 6/11/2008

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the req

information as submitted in the uire revision. Following is a chec	previously approved application klist of some items related to the	n to drill, remains valid and does not ne application, which should be verified.
 If located on private land, has updated? Yes No 	the ownership changed, if so, h	nas the surface agreement been
 Have any wells been drilled in siting requirements for this lo 		ell which would affect the spacing or
Has there been any unit or ot of this proposed well?		t could affect the permitting or operation
 Have there been any changes affect the proposed location? 		wnership, or rightof- way, which could
• Has the approved source of w	rater for drilling changed? 🔘 🔌	Yes 📵 No
	changes to the surface location as discussed at the onsite evalua	or access route which will require a ation? (Yes (No
• Is bonding still in place, which	h covers this proposed well?	Approved by the Yes No Utah Division of Oil, Gas and Mining
nature: Eden Fine	Date: 6/17/2010	
Title: Permitting Clerk Represe	enting: XTO ENERGY INC	Date: June 23, 2010
- -		en Rosall

Sig

	STATE OF UTAH		FORM 9
	DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-34350
	RY NOTICES AND REPORTS ON		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE
	sals to drill new wells, significantly deepen exis gged wells, or to drill horizontal laterals. Use A		7.UNIT or CA AGREEMENT NAME: LITTLE CANYON
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: LCU 3-9H
2. NAME OF OPERATOR: XTO ENERGY INC			9. API NUMBER: 43047401270000
3. ADDRESS OF OPERATOR: 382 Road 3100 , Aztec, NM, 8		PHONE NUMBER:	9. FIELD and POOL or WILDCAT: UNDESIGNATED
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0793 FNL 1141 FWL QTR/QTR, SECTION, TOWNSHI	D DANCE MEDIDIAN.		COUNTY: UINTAH
	9 Township: 11.0S Range: 20.0E Meridian: S		STATE: UTAH
11. CHE	CK APPROPRIATE BOXES TO INDICATE N	ATURE OF NOTICE, REPORT,	OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
✓ NOTICE OF INTENT	ACIDIZE	ALTER CASING	☐ CASING REPAIR
Approximate date work will start: 6/11/2011	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:		FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	PLUG AND ABANDON	☐ PLUG BACK
SPUD REPORT	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE SIDETRACK TO REPAIR WELL	RECOMPLETE DIFFERENT FORMATION
Date of Spud:	☐ TUBING REPAIR	VENT OR FLARE	☐ TEMPORARY ABANDON ☐ WATER DISPOSAL
		SI TA STATUS EXTENSION	✓ APD EXTENSION
DRILLING REPORT Report Date:			
		OTHER	OTHER:
l .	MPLETED OPERATIONS. Clearly show all pertinencests a one year extension on the referenced well.	State Permit for the	Approved by the Utah Division of Oil, Gas and Mining ate: June 23, 2010 y:
NAME (PLEASE PRINT) Eden Fine	PHONE NUMBER 505 333-3664	TITLE Permitting Clerk	
SIGNATURE N/A		DATE 6/17/2010	



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047401270000

API: 43047401270000

Well Name: LCU 3-9H

Location: 0793 FNL 1141 FWL QTR NWNW SEC 09 TWNP 110S RNG 200E MER S

Company Permit Issued to: XTO ENERGY INC

Date Original Permit Issued: 6/11/2008

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the req

information as submitted in the uire revision. Following is a chec	previously approved application klist of some items related to the	n to drill, remains valid and does not ne application, which should be verified.
 If located on private land, has updated? Yes No 	the ownership changed, if so, h	nas the surface agreement been
 Have any wells been drilled in siting requirements for this lo 		ell which would affect the spacing or
Has there been any unit or ot of this proposed well?		t could affect the permitting or operation
 Have there been any changes affect the proposed location? 		wnership, or rightof- way, which could
• Has the approved source of w	rater for drilling changed? 🔘 🔌	Yes 📵 No
	changes to the surface location as discussed at the onsite evalua	or access route which will require a ation? (Yes (No
• Is bonding still in place, which	h covers this proposed well?	Approved by the Yes No Utah Division of Oil, Gas and Mining
nature: Eden Fine	Date: 6/17/2010	
Title: Permitting Clerk Represe	enting: XTO ENERGY INC	Date: June 23, 2010
- -		en Rosall

Sig

Sundry Number: 15454 API Well Number: 43047401270000

	STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES		FORM 9
	DIVISION OF OIL, GAS, AND MINING		5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-34350
SUND	RY NOTICES AND REPORTS ON WELLS		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE
	sals to drill new wells, significantly deepen exi ugged wells, or to drill horizontal laterals. Use		7.UNIT or CA AGREEMENT NAME: LITTLE CANYON
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: LCU 3-9H
2. NAME OF OPERATOR: XTO ENERGY INC			9. API NUMBER: 43047401270000
3. ADDRESS OF OPERATOR: 382 Road 3100 , Aztec, NM, 8		NUMBER:	9. FIELD and POOL or WILDCAT: HILL CREEK
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0793 FNL 1141 FWL QTR/QTR, SECTION, TOWNSH	TD DANGE MEDITYAN.		COUNTY: UINTAH
	9 Township: 11.0S Range: 20.0E Meridian: S		STATE: UTAH
11. CHE	CK APPROPRIATE BOXES TO INDICATE	NATURE OF NOTICE, REPORT,	OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
_	☐ ACIDIZE ☐	ALTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	☐ CHANGE TO PREVIOUS PLANS	CHANGE TUBING	☐ CHANGE WELL NAME
6/1/2012	☐ CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
SUBSEQUENT REPORT	☐ DEEPEN ☐	FRACTURE TREAT	☐ NEW CONSTRUCTION
Date of Work Completion:	☐ OPERATOR CHANGE	PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
SPUD REPORT Date of Spud:	☐ REPERFORATE CURRENT FORMATION ☐	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
	☐ TUBING REPAIR ☐	VENT OR FLARE	WATER DISPOSAL
☐ DRILLING REPORT	☐ WATER SHUTOFF ☐	SI TA STATUS EXTENSION	✓ APD EXTENSION
Report Date:	□ WILDCAT WELL DETERMINATION □	OTHER	OTHER:
	pmpleted operations. Clearly show all pertine equests a one (1) year extension referenced well.	of the State APD for th	
NAME (PLEASE PRINT) Krista Wilson	PHONE NUMBER 505 333-3647	TITLE Permitting Tech	
SIGNATURE N/A		DATE 6/1/2011	
1 N / A		# V/1/2U11	

Sundry Number: 15454 API Well Number: 43047401270000



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047401270000

API: 43047401270000

Well Name: LCU 3-9H

Location: 0793 FNL 1141 FWL QTR NWNW SEC 09 TWNP 110S RNG 200E MER S

Company Permit Issued to: XTO ENERGY INC

Date Original Permit Issued: 6/11/2008

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

 If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes No
 Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes No
 Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes No
 Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? Yes No
• Has the approved source of water for drilling changed? Yes No
 Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes No
• Is bonding still in place, which covers this proposed well? Yes No

Signature: Krista Wilson **Date:** 6/1/2011

Title: Permitting Tech Representing: XTO ENERGY INC

Sundry Number: 26338 API Well Number: 43047401270000

	STATE OF UTAH		FORM 9
ı	DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-34350
SUNDR	RY NOTICES AND REPORTS ON	WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE
	posals to drill new wells, significantly dee reenter plugged wells, or to drill horizontal n for such proposals.		7.UNIT or CA AGREEMENT NAME: LITTLE CANYON
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: LCU 3-9H
2. NAME OF OPERATOR: XTO ENERGY INC			9. API NUMBER: 43047401270000
3. ADDRESS OF OPERATOR: 382 Road 3100, Aztec, NM		ONE NUMBER: Ext	9. FIELD and POOL or WILDCAT: HILL CREEK
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0793 FNL 1141 FWL			COUNTY: UINTAH
QTR/QTR, SECTION, TOWNSH Qtr/Qtr: NWNW Section:	HP, RANGE, MERIDIAN: 09 Township: 11.0S Range: 20.0E Meridian	n: S	STATE: UTAH
11. CHECI	K APPROPRIATE BOXES TO INDICATE N	IATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	CHANGE TO PREVIOUS PLANS CHANGE WELL STATUS DEEPEN OPERATOR CHANGE PRODUCTION START OR RESUME REPERFORATE CURRENT FORMATION TUBING REPAIR WATER SHUTOFF		CASING REPAIR CHANGE WELL NAME CONVERT WELL TYPE NEW CONSTRUCTION PLUG BACK RECOMPLETE DIFFERENT FORMATION TEMPORARY ABANDON WATER DISPOSAL ✓ APD EXTENSION OTHER: Depths, volumes, etc. Approved by the Utah Division of Oil, Gas and Mining Date: June 05, 2012 By:
NAME (PLEASE PRINT) Richard L. Redus	PHONE NUMBER 303 397-3712	TITLE Regulatory	
SIGNATURE N/A		DATE 6/4/2012	

Sundry Number: 26338 API Well Number: 43047401270000



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047401270000

API: 43047401270000

Well Name: LCU 3-9H

Location: 0793 FNL 1141 FWL QTR NWNW SEC 09 TWNP 110S RNG 200E MER S

Company Permit Issued to: XTO ENERGY INC Date Original Permit Issued: 6/11/2008

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

• If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes No
Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes No
• Has there been any unit or other agreements put in place that could affect the permitting or operation of thi proposed well? Yes No
• Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? (Yes (No
• Has the approved source of water for drilling changed? Yes No
• Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes No
• Is bonding still in place, which covers this proposed well? Yes No
nature: Pichard I Pedus Date: 6/4/2012

Signature: Richard L. Redus **Date:** 6/4/2012

Title: Regulatory Representing: XTO ENERGY INC



State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

August 14, 2013

43 047 40127 LLU 3-9H 115 20E 9

XTO Energy Inc. 382 Road 3100 Aztec, NM 87410

Re: APDs Rescinded for XTO Energy, Inc., Uintah and Emery County

Ladies and Gentlemen:

Enclosed find the list of APDs that are being rescinded. No drilling activity at these locations has been reported to the division. Therefore, approval to drill these wells is hereby rescinded, effective August 14, 2013.

A new APD must be filed with this office for approval <u>prior</u> to the commencement of any future work on the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division immediately.

Sincerely,

Diana Mason

Environmental Scientist

cc:

Well File

Bureau of Land Management, Vernal Bureau of Land Management, Price



	43-047-38095	LCU 4-1H
	43-047-38096	LCU 3-1H
	43-047-38097	LCU 15-1H
	43-047-38098	LCU 10-1H
	43-047-38183	LCU 6-35F
	43-047-38184	LCU 8-9H
	43-047-38185	LCU 8-1H
	43-015-30753	UT FED 18-7-34-43D
	43-015-30754	UT FED 17-7-35-22
->	43-047-40127	LCU 3-9H
,	43-047-40128	LCU 4-9H